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**KREISEL**®

**FIXIT** GRUPPE  
BAUSTOFFE MIT SYSTEM

Catalogue

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25

**KREISEL**®



experience

- ▶ on the Polish market for 25 years
- ▶ one of the leading manufacturers of construction chemicals
- ▶ winner of numerous awards and distinctions
- ▶ 6 production plants and an aggregate mine
- ▶ we form a part of the European FIXIT GRUPPE concern



modernity

- ▶ rich range of high-grade, modern building materials enabling construction, renovation and decoration of flats, houses and offices



certified  
laboratories

- ▶ modern laboratories located in each factory in Poland
- ▶ systematic quality control of products in all stages of production



ecological  
solutions

- ▶ raising pro-ecological awareness
- ▶ strategy oriented towards the highest standards
- ▶ ecological GREEN WAY Certificate products which meet requirements of European standards

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NEW

NEW

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NEW

NEW

NEW

NEW

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# Decorative renders

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Table 1. Properties of decorative plasters

	 Mineral POZTYNK-SZ 061	 Acrylic AKRYTYNK 010	 Silicate SILIKATYNK 020	 Silicate- silicone SISITYNK 040	 Silicone SILIKON PRO- TECT 031	 Polysilicone MAX PROTECT 042	 Ecological ECOTYNK 022
Easy plaster coating	●●	●●●●	●●●	●●●●	●●●●	●●●●	●●●
Water vapour permeability	●●●●	●	●●●●	●●●	●●●	●●●	●●●●
Moisture release	●●●	●	●●●	●●●	●●●	●●●	●●●
CO <sub>2</sub> permeability	●●●●	●	●●●●	●●●	●●●	●●●	●●●●
Mechanical strength	●	●●●	●●	●●●	●●●	●●●●	●●●
Soiling resistance	●●●	●●	●●	●●	●●●	●●●●	●●
Resistance to algae growth	●●●	●●	●●●	●●●	●●●	●●●●	●●●
Elasticity	●	●●●	●●	●●●	●●●	●●●●	●●
Resistance to natural ageing (UV, frost, ozone)	●●	●	●●	●●	●●●	●●●●	●●●
Resistance to impacts of industrial atmosphere	●	●●●	●●	●●●	●●●	●●●●	●●●
The range of colours	●	●●●●	●●	●●●●	●●●●	●●●●	●●●

●●●● Very good ●●● Good ●● Satisfactory ● Low

Table 2. Consumption and coverage of decorative plasters, depending on structure and granulation

Type	Approximate plaster consumption per 1sqm and coverage from a 25 kg packaging	
	Mineral plasters (POZTYNK-SZ 061 and 062)	Dispersive plasters (AKRYTYNK 010, SILIKATYNK 020, SILIKON PROTECT 031, SISITYNK 040, MAX PROTECT 042)
0,5 mm	-	1,0 kg (25,0 m <sup>2</sup> )
Fleecy texture plaster 1,0 mm	2,1 kg (11,9 m <sup>2</sup> )	1,6 kg (15,6 m <sup>2</sup> )
Fleecy texture plaster 1,5 mm	2,5 kg (10,0 m <sup>2</sup> )	2,4 kg (10,4 m <sup>2</sup> )
Fleecy texture plaster 2,0 mm	2,9 kg (8,6 m <sup>2</sup> )	3,5 kg (7,1 m <sup>2</sup> )
Fleecy texture plaster 3,0 mm	4,3 kg (5,8 m <sup>2</sup> )	5,0 kg (5,0 m <sup>2</sup> )
1.0 mm pitted (rilled) texture	2,0 kg (12,5 m <sup>2</sup> )	-
1.5 mm pitted (rilled) texture	-	1,2 kg (21,0 m <sup>2</sup> )
2.0 mm pitted (rilled) texture	2,8 kg (8,6 m <sup>2</sup> )	2,4 kg (10,4 m <sup>2</sup> )
3.0 mm pitted (rilled) texture	4,1 kg (6,1 m <sup>2</sup> )	3,7 kg (6,7 m <sup>2</sup> )

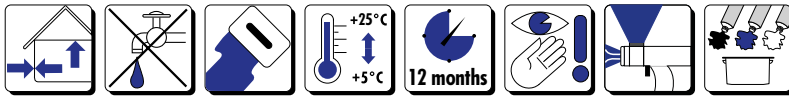
## AKRYTYNK 010

Acrylic render



Ready-to-use, dyed plaster mortar based on dispersed acrylic resin. For creating thin-layer indoor and outdoor use plaster coats. Incorporated in the TURBO thermal insulation system by KREISEL. After drying, creates an elastic layer, with good mechanical resistance and permanent colour properties. Suitable for spray application.

- grain sizes: 0,5 mm; 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm



**Bucket:**

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

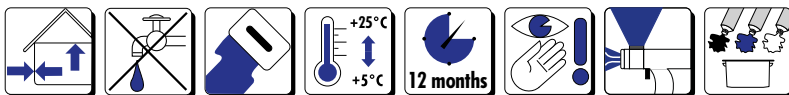
## SILIKATYNK 020

Silicate render



Ready-to-use, dyed plaster grout based on potassium waterglass. For creating thin-layer indoor- and outdoor-use plaster coats. Incorporated in the TURBO-SA and TURBO-WSA thermal insulation systems by KREISEL. After drying, the grout creates a flexible, mold-resistant and durable plaster layer. Suitable for spray application.

- grain sizes: 0,5 mm, 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm



**Bucket:**

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

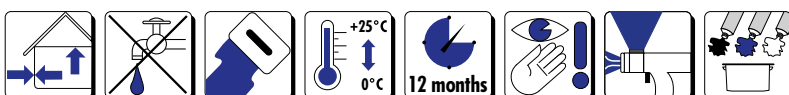
## SILIKATYNK Z 021

Winter silicate render



Ready-to-use, dyed plaster mortar based on potassium waterglass, intended for use in low temperatures - above 0°C. Incorporated in the TURBO Z-SA thermal insulation system. Suitable for spray application. After drying, creates an elastic layer, with good mechanical resistance and permanent colour properties.

- grain sizes: 0,5 mm, 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm



**Bucket:**

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

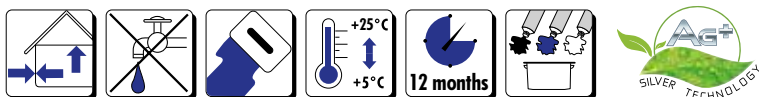
## ECO TYNK 022 ECO PROTECT

Ecological thin-layer render



Ready to use plaster, based on ecological polymeric adhesives, natural fillers and aggregates, with Ag+ SILVER TECHNOLOGY biological protection system based on active silver. Thin-layer finishing coats for indoor and outdoor applications. It is included in the TURBO-ECO PROTECT and TURBO W-ECO PROTECT thermal insulation systems with the KREISEL Trademark. Once it is dry, it provides an elastic, durable finishing coat.

- grain sizes: 0,5 mm; 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm



Bucket:

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

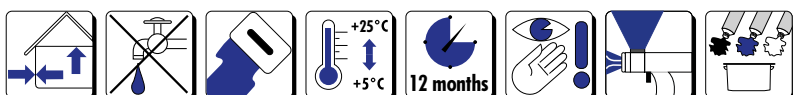
## NANOTYNK 031 SILIKON PROTECT

Nano-silicone render



Ready-to-use, dyed plaster mortar based on nano-particle silicone resin. For performing thin-layer indoor- and outdoor-use plaster coats. Incorporated in the TURBO-SO PROTECT and TURBO-WSO PROTECT thermal insulation systems by KREISEL. Suitable for spray application. After drying, creates a hydrophobic, elastic and durable layer. The plaster offers self-cleaning properties, thanks to which it is more resistant to biological overgrowth.

- grain sizes: 0,5 mm, 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm



Bucket:

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

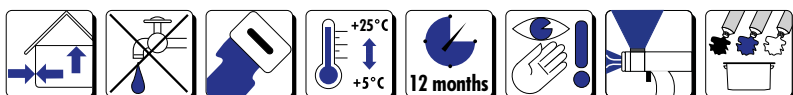
## SISITYNK 040

Silicate-silicone render



Ready-to-use, dyed plaster mortar based on potassium waterglass and silicone emulsion dispersion. For thin-layer indoor- and outdoor-use plaster coats. Incorporated in the TURBO-SISI and TURBO-WSISI thermal insulation systems by KREISEL. After drying, creates a hydrophobic, elastic and durable layer resistant to overgrowth. Suitable for spray application.

- grain sizes: 0,5 mm, 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm



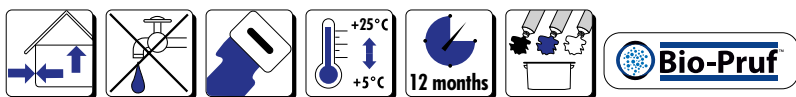
Bucket:

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

**BIOTYNK 042 MAX PROTECT***Polysilicone BIO-render*

Ready-to-use mass based on acrylic polymer, intended for installing finishing coats in humid rooms. For creating thin-layer indoor- and outdoor-use plaster coats. Suitable for spray application. After drying, creates a hydrophobic, elastic and durable layer. After drying, the plaster offers self-cleaning properties, thanks to which it is more resistant to biological overgrowth.

- grain sizes: 0,5 mm; 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 1,5 mm - ca. 2,5 kg/m<sup>2</sup>
- coverage: ca. 10,0 m<sup>2</sup>/bucket/BR 1,5 mm

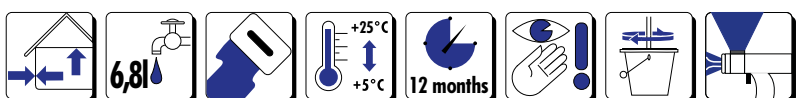
**Bucket:**

- 25 kg
- 33 pcs per pallet
- pallet weight: 872 kg

**POZTYNK-SZ DR 061, BR 062***Mineral thin-layer render*

Cement-based mortar, intended for manual execution of thin-layer dashed plaster structure. Incorporated in the TURBO and TURBO-W thermal insulation systems by KREISEL. After drying, the mortar creates a highly adhesive, vapour-permeable, durable plaster.

- grain sizes: 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
- consumption: 2,0 mm - ca. 2,9 kg/m<sup>2</sup>
- coverage: ca. 8,6 m<sup>2</sup>/bag/BR 1,5 mm

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## MOZATYNK-S 051

Mosaic acrylic render

A set of products required for preparing coloured mosaic plaster in-store. To develop the colour, stir 4 packages of aggregate in a bucket with the decorative mica additive.

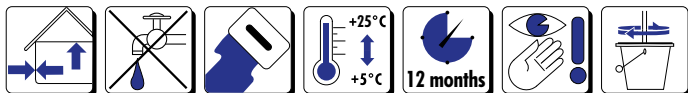
### PRODUCTS:

#### BASE I -Acrylic adhesive



Adhesive for mixing with a single-fraction coloured aggregate (BASE II) to obtain colourful plastering mix.

- density of ready-to-use plaster: approx. 1,75 g/cm<sup>3</sup>
- temperature of use: from +5°C to +25°C
- storage: up to 12 months from the date of manufacture in undamaged factory packaging and at a temperature from +5°C to +25°C



#### Bucket BASE I:

- 4 kg
- 48 pcs per pallet

#### BASE II - Single-fraction coloured aggregate



Aggregate for mixing with adhesive (BASE I) to obtain colourful plastering mix.

- density of ready-to-use plaster: approx. 1,75 g/cm<sup>3</sup>
- temperature of use: from +5°C to +25°C
- grain size: 1,2 mm and 1,8 mm
- storage: for an indefinite period in undamaged factory packaging

#### Bag BASE II

- 4 pcs per bucket
- 3 kg

#### MICA - Decorative additive of mica flakes



Natural aggregate for mixing with adhesive (BASE I) and colourful aggregate (BASE II) to obtain colourful plastering mix.

- packaging: container with 0,25 kg of aggregate
- available colours: silver and black
- storage: BASE MICA - for an indefinite period in undamaged factory packaging.

#### Bucket MICA

- 1 pcs 4 pcs per bucket
- 0,25 kg

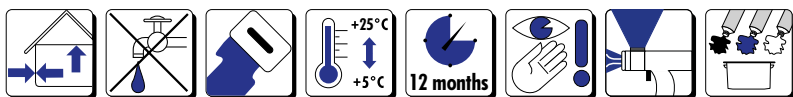
## ARCHITECTURAL CONCRETE 055

*Polymer modelled, structural render*



Styled render, used to create a surface-level imitation of architectural concrete, concretes and other modelled structures. These styled renders are available not only for creating concrete-like structures but a variety of effects can be achieved. The mortar allows the user to make structural imprints e.g. of a board, in order to construct a pattern. After hardening, the concrete layer is water-proof and freeze-proof, and is highly adhesive and resistant to weathering.

- grain sizes: 0,5 mm
- consumption: depends on the surface, from 1,2 kg/m<sup>2</sup>
- coverage: up to 12,5 m<sup>2</sup>/bucket



**Bucket:**

- 15 kg
- 33 pcs per pallet
- pallet weight: 534 kg



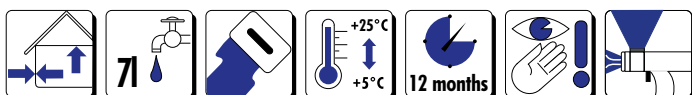
## ROLTYNK 070

*Mineral decorative render*



Cement-based mortar, intended for manual execution of decorative, thin-layer plaster layers. Depending on the tools used, it is possible to model the plaster and achieve various, original textures. Indoor and outdoor use.

- grain sizes: 0,5 mm
- layer thickness: 2-5 mm
- consumption: from ca. 2,5 kg/m<sup>2</sup>
- coverage: from ca. 10 m<sup>2</sup>/bag



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

# Linia **eco**

- environmentally friendly and ecological
  - modern biological protection
  - highly vapour permeable



Places of use of KREISEL facade plasters:						
	Woodlands	Mountain areas	Rural areas	Lake district areas	Urban agglomerations	Seaside areas
	1 leaf	1 leaf	2 leaves	1 leaf	2 leaves	1 leaf
	2 leaves	2 leaves	2 leaves	2 leaves	1 leaf	3 leaves
	2 leaves	2 leaves	2 leaves	2 leaves	3 leaves	2 leaves
	2 leaves	2 leaves	3 leaves	2 leaves	2 leaves	2 leaves
	3 leaves	3 leaves	3 leaves	3 leaves	3 leaves	3 leaves
	3 leaves	3 leaves	3 leaves	3 leaves	3 leaves	3 leaves

Legenda: RECOMMENDED POSSIBLE NOT RECOMMENDED

# Thermal insulation system

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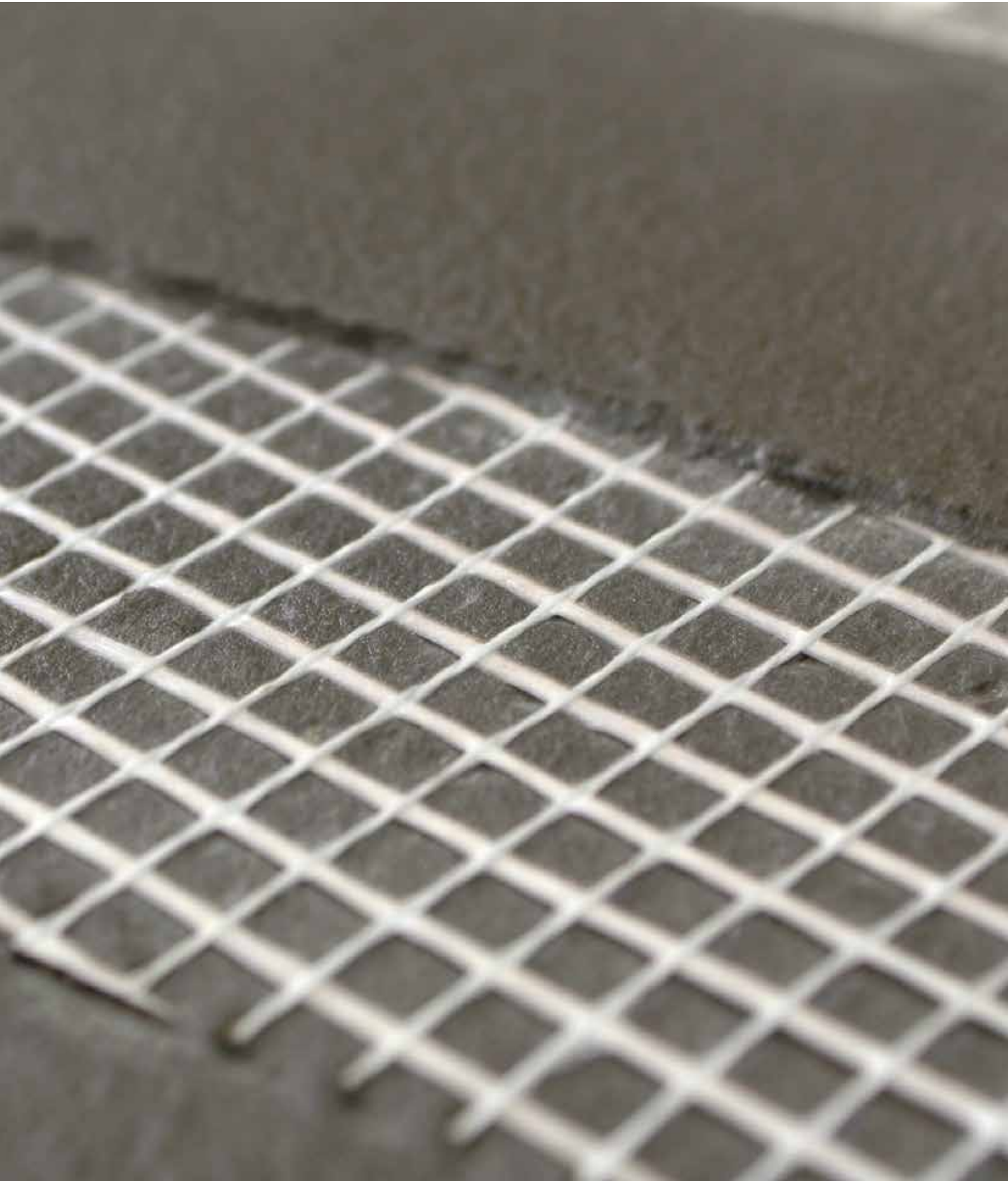













Table 3. Composition of thermal wall insulation systems

		 TURBO ECO PROTECT	 TURBO	 TURBO-S	 TURBO-SA	 TURBO Z-SA
STYROFOAM PANELS		●	●	●	●	●
MINERAL WOOL						
LEPSTYR 210	p. 21	●	●	●	●	
LEPSTYR 210 EXTRA	p. 22	●	●	●	●	
LEPSTYR ELASTIC 210	p. 21	●	●	●	●	
LEPSTYR Z 211	p. 22					●
LEPSTYR- W 230	p. 22					
LEPSTYR- WG 231	p. 23					
STYRLEP 220	p. 23	●	●	●	●	
STYRLEP 220 Extra	p. 23	●	●	●	●	
STYRLEP ELASTIC 220	p. 21	●	●	●	●	
STYRLEP Z 221	p. 22					●
STYRLEP-B 225	p. 24	●	●	●	●	
STYRLEP-W 240	p. 24					
TYNKOLIT-T 330	p. 26		●	●		
TYNKOLIT-SA 331	p. 26				●	
TYNKOLIT-SO 332	p. 26					
TYNKOLIT-SISI 333	p. 27					
TYNKOLIT-U 340	p. 25	●	●	●	●	
TYNKOLIT-Z-SA 341	p. 27					●
TYNKOLIT-G-SA 342	p. 27					
POZTYNK-SZ 061/062	p. 12		●			
AKRYTYNK 010	p. 10			●		
SILIKATYNK 020	p. 10				●	
ECOTYNK 022	p. 11	●				
SILIKATYNK Z-SA 021	p. 10					●
SILIKON PROTECT 031	p. 11					
SISITYNK 040	p. 11					
BIOTYNK 042	p. 12					
STRUCTURAL PAINT 071	p. 37					

					
		TURBO-SISI	TURBO-MAX PROTECT	TURBO-W ECO PROTECT	TURBO-W
STYROFOAM PANELS		●			
MINERAL WOOL				●	●
LEPSTYR 210	p. 21	●	●		
LEPSTYR 210 EXTRA	p. 22	●	●		
LEPSTYR ELASTIC 210	p. 21	●	●		
LEPSTYR Z 211	p. 22				
LEPSTYR- W 230	p. 22			●	●
LEPSTYR- WG 231	p. 23				
STYRLEP 220	p. 23	●	●		
STYRLEP 220 Extra	p. 23	●	●		
STYRLEP ELASTIC 220	p. 21	●	●		
STYRLEP Z 221	p. 22				
STYRLEP-B 225	p. 24	●	●	●	●
STYRLEP-W 240	p. 24			●	●
TYNKOLIT-T 330	p. 26				●
TYNKOLIT-SA 331	p. 26				
TYNKOLIT-SO 332	p. 26		●		
TYNKOLIT-SISI 333	p. 27	●			
TYNKOLIT-U 340	p. 25	●	●	●	●
TYNKOLIT-Z-SA 341	p. 27				
TYNKOLIT-G-SA 342	p. 27				
POZTYNK-SZ 061/062	p. 12				●
AKRYTYNK 010	p. 10				
SILIKATYNK 020	p. 10				
ECOTYNK 022	p. 11			●	
SILIKATYNK Z-SA 021	p. 10				
SILIKON PROTECT 031	p. 11				
SISITYNK 040	p. 11	●			
BIOTYNK 042	p. 12		●		
STRUCTURAL PAINT 071	p. 37				



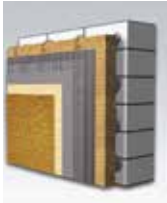



 TURBO-WSA	 TURBO-WSO PROTECT	 TURBO-W SISI	 TURBO-WG	 TURBO-R	 TURBO-GRAFIT
				●	●
●	●	●	●		
				●	
					●
					●
●	●	●			
			●		
				●	
					●
					●
●	●	●		●	●
●	●	●			
				●	●
●				●	●
				●	●
	●			●	●
		●		●	●
●	●	●			●
			●		
				●	●
				●	●
●				●	●
					●
	●			●	●
		●		●	●
					●
			●		

Table 4. The scope of adhesive mortars, intended for thermal insulation systems

						
	LEPSTYR 210	LEPSTYR 210 ELASTYCZNY	LEPSTYR 210 EXTRA	LEPSTYR Z 211	LEPSTYR-W 230	LEPSTYR-WG 231
Styrofoam glueing	●	●	●	●	●	●
Graphite styrofoam glueing	●	●	●	●	●	●
Mineral wool glueing	●	●	●	●	●	●
System reinforcing layer on styrofoam	●	●	●	●	●	●
System reinforcing layer on graphite styrofoam	●	●	●	●	●	●
System reinforcing layer on styrofoam	●	●	●	●	●	●

● recommended ● not recommended

Table 5. The scope of adhesive-reinforcing mortars, intended for thermal insulation systems

						
	STYRLEP 220	STYRLEP 220 ELASTYCZNY	STYRLEP 220 EXTRA	STYRLEP Z 221	STYRLEP-B 225	STYRLEP-W 240
Styrofoam glueing	●	●	●	●	●	●
Graphite styrofoam glueing	●	●	●	●	●	●
Mineral wool glueing	●	●	●	●	●	●
System reinforcing layer on styrofoam	●	●	●	●	●	●
System reinforcing layer on graphite styrofoam	●	●	●	●	●	●
System reinforcing layer on styrofoam	●	●	●	●	●	●

● recommended ● not recommended

**LEPSTYR 210 ELASTIC**

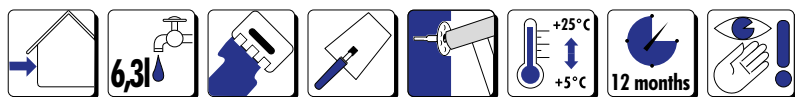
**NEW**

Elastic adhesive mortar for graphite and white styrofoam



Elastic adhesive with improved adhesion to styrofoam and substrate. Characterised by very good working technical properties. Intended for fixing graphite and ordinary styrofoam in TURBO thermal insulation systems. Vapour permeable. On concretes, bricks, hollow bricks, plasters. Waterproof and freezeproof.

- grain sizes: up to 0,5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: avg ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



- Bag:**
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

**STYRLEP 220 ELASTIC**

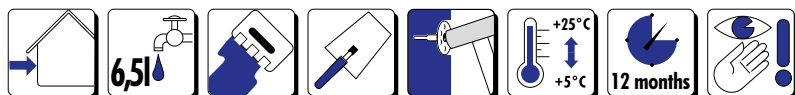
**NEW**

Specialist elastic reinforcing adhesive to graphite and white styrofoam



Specialist, elastic adhesive intended for embedding reinforcing mesh and fixing graphite and white styrofoam in TURBO thermal insulation systems. Characterised by very good working technical properties. Vapour permeable. On concretes, bricks, hollow bricks, plasters. Waterproof and freezeproof. It contains reinforcing fibres.

- grain sizes: up to 0,5 mm
- layer thickness: 3-5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4-5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



- Bag:**
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

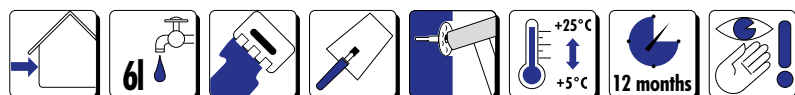
**LEPSTYR 210**

Adhesive for mounting styrofoam panels



Adhesive for mounting styrofoam panels in thermal insulation systems dedicated for external walls. Can be applied on various types of mineral groundworks: concrete, cement-lime, ceramic, silicate, autoclaved aerated concrete, etc.

- grain sizes: up to 0,5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



- Bag:**
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

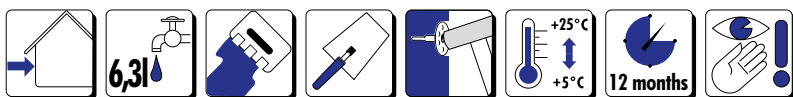
### LEPSTYR 210 EXTRA

Adhesive for mounting graphite styrofoam panels



Adhesive for mounting graphite and common Styrofoam panels in external thermal insulation systems. Can be applied on various types of mineral groundworks: concrete, cement-lime, ceramic, silicate, autoclaved aerated concrete, etc.

- grain sizes: up to 0,5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

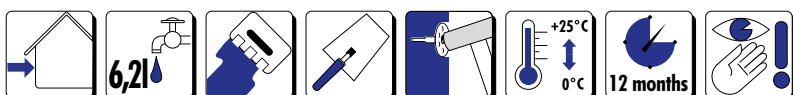
### LEPSTYR Z 211

Winter adhesive for mounting styrofoam panels



Intended for mounting Styrofoam panels in low temperature conditions - above 00. Can be applied on various types of mineral groundworks: concrete, cement-lime, ceramic, silicate, autoclaved aerated concrete, etc.

- grain sizes: up to 0,5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

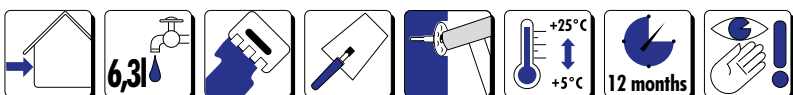
### LEPSTYR-W 230

Adhesive for mounting mineral wool panels



Mortar for bonding mineral wool in TURBO systems. It is vapour permeable and resistant to water and frost. On concrete, bricks, hollows and plasters. For lamella and ordinary wool.

- grain sizes: up to 0,5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- wool panels adhesion:  $\geq 0,08$  MPa
- consumption: ca. 5 kg/m<sup>2</sup>
- coverage: ca. 5,0 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

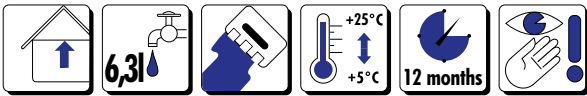
**LEPSTYR-WG 231**

Adhesive for mounting lamella mineral wool panels in the garage system



Mortar designed for lamella mineral wool in thermal insulation systems over unheated rooms. Used on concrete floors, reinforced concrete, prefabricated and densely ribbed. It is vapour permeable and resistant to water and frost.

- grain sizes: up to 0,5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- wool panels adhesion:  $\geq 0,08$  MPa
- consumption: ca. 5,5 kg/m<sup>2</sup>
- coverage: ca. 4,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

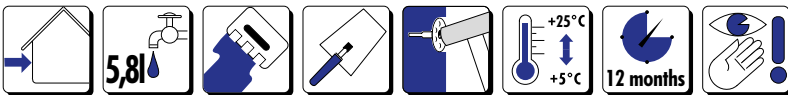
**STYRLEP 220**

Adhesive-reinforcing mortar for styrofoam



Joint mortar for embedding reinforcing mesh and sticking polystyrene in TURBO systems. Used on concrete, bricks, hollow bricks, plasters. It contains reinforcing fibers. It is waterproof and resistant to water and frost.

- grain sizes: up to 0,5 mm
- layer thickness: 3-5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

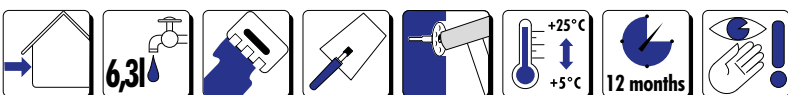
**STYRLEP 220 EXTRA**

Adhesive-reinforcing mortar for Graphite Styrofoam



Jointed mortar for embedding reinforcement mesh and glueing graphite styrofoam in TURBO systems. Suitable for concrete, bricks, hollows and plasters. It contains reinforcing fibers. It is resistant to water and frost.

- grain sizes: up to 0,5 mm
- layer thickness: 3-5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

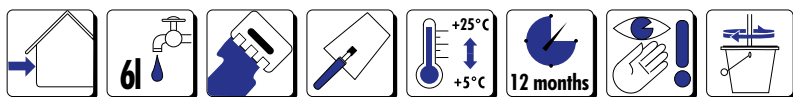
### STYRLEP-B 225

Universal, white adhesive-reinforcing mortar for styrofoam and mineral wool



Universal glue-reinforcing mortar for ordinary and graphite styrofoam as well as mineral wool. Highly hydrophobic, contains reinforcing fibers. The reinforcing layer made with this mortar does not require priming. It is resistant to water and frost.

- grain sizes: up to 1,0 mm
- layer thickness: 3-5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- wool panels adhesion:  $\geq 0,08$  MPa
- consumption: ca. 5,5 kg/m<sup>2</sup>
- coverage: ca. 4,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

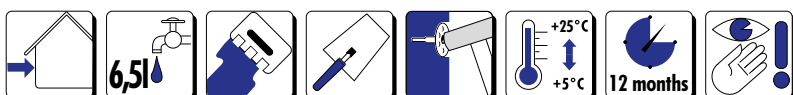
### STYRLEP-W 240

Adhesive-reinforcing mortar for mineral wool



Mortar of reinforcing layer and mineral wool bonding in TURBO-W systems. Highly hydrophobic, contains reinforcing fibers. Suitable for concrete, bricks, hollows and plasters. It is resistant to water and frost.

- grain sizes: up to 0,8 mm
- layer thickness: 3-5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- wool panels adhesion:  $\geq 0,08$  MPa
- consumption: ca. 5,5 kg/m<sup>2</sup>
- coverage: ca. 4,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

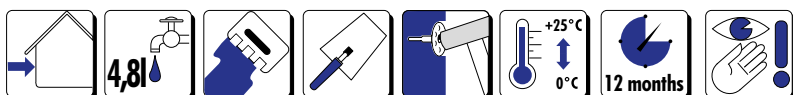
### STYRLEP-Z 221

Winter adhesive-reinforcing mortar for styrofoam panels



Specialised mortar for use in low air temperatures above 0°C. Designed for embedding reinforcing mesh and sticking polystyrene in TURBO Z-SA system. It is vapour permeable and resistant to water and frost. Suitable for concrete, bricks, hollows and plasters.

- grain sizes: up to 0,5 mm
- layer thickness: 3-5 mm
- concrete adhesion:  $\geq 0,25$  MPa
- styrofoam adhesion:  $\geq 0,08$  MPa
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg



Table 6. Plaster application options

	 TYNKOLIT-T 330	 TYNKOLIT-SA 331	 TYNKOLIT-SO 332	 TYNKOLIT-SISI 333	 TYNKOLIT Z-SA 341	 TYNKOLIT-U 340
Mineral POZTYNK-SZ 061	●	●	●	●	●	●
ROLYNK 070	●	●	●	●	●	●
Acrylic AKRYTYNK 010	●	●	●	●	●	●
Silicate SILIKATYNK 020	●	●	●	●	●	●
Silicate, winter SILKATYNK-Z 021	●	●	●	●	●	●
Silicone SILIKON PROTECT 031	●	●	●	●	●	●
Silicate-silicone SISITYNK 040	●	●	●	●	●	●
Biotynk MAX PROTECT 042	●	●	●	●	●	●
ECOTYNK 022	●	●	●	●	●	●
Mosaic MOZATYNK-S 050/051	●	●	●	●	●	●

● recommended ● not recommended

## TYNKOLIT-U 340

Universal priming coat under thin-layer and mosaic plasters



Specialist primer with high opacity for final preparation of substrates before application of mineral, acrylic, silicate, silicone, mosaic and other plasters. With quartz aggregate. It reduces and levels absorptivity of substrates, facilitates the application of finishing coats and increases their bond strength. Used in TURBO thermal insulation systems.

- drying time: ca. 4 hours
- possibility of further works: after ca. 24 hours
- colour: white or coloured
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg

**Bucket:**  
White/Colour:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg

- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg



### TYNKOLIT-T 330

Priming coat under mineral, acrylic and mosaic renders



The primer is intended for final preparation of substrates before application of mineral, acrylic and mosaic plasters. With quartz aggregate. It reduces and levels absorptivity of substrates, facilitates the application of finishing coats and increases their bond strength.

- drying time: ca. 4 hours
- possibility of further works: after ca. 24 hours
- colour: white or coloured
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg



**Bucket:**

White/Colour:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg

- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg

### TYNKOLIT-SA 331

Priming coat under silicate renders



The primer based on potassium water-glass is intended for final preparation of substrates before application of silicate plasters. With quartz aggregate. It reduces and levels absorptivity of substrates, facilitates the application of finishing coats and increases their bond strength.

- drying time: ca. 4 hours
- possibility of further works: after ca. 24 hours
- colour: white or coloured
- consumption: 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg



**Bucket:**

White/Colour:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg

- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg

### TYNKOLIT-S0 332

Priming coat under silicone renders



The specialist primer based on silicone resins is intended for final preparation of substrates before application of silicone plasters. It reduces and levels absorptivity of substrates, facilitates the application of finishing coats and increases their bond strength.

- drying time: ca. 4 hours
- possibility of further works: after ca. 24 hours
- colour: white or coloured
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg



**Bucket:**

White/Colour:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg

- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg

## TYNKOLIT-SISI 333

Priming coat under silicate-silicone renders



The specialist primer is intended for final preparation of substrates before application of silicate-silicone plasters. It reduces and levels absorptivity of substrates, facilitates application of finishing coats and increases their bond strength.

- drying time: ca. 4 hours
- possibility of further works: after ca. 24 hours
- colour: white or coloured
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg

**Bucket:**

White/Colour:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg



- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg

## TYNKOLIT Z-SA 341

Winter priming coat under silicate renders (SILIKATYNK Z-SA 021)



The specialist primer is intended for application at lower temperatures over 0°C. It is intended for final preparation of substrates before application of silicate plasters. It reduces and levels absorptivity of substrates, facilitates application of finishing coats and increases their bond strength. Used in TURBO Z-SA winter system.

- drying time: ca. 12 hours
- possibility of further works: after ca. 24 hours
- colour: white or coloured
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg

**Bucket:**

White

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg



- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg

## TYNKOLIT G-SA 342

Priming coat under a structural paint (PAINT 071)



The primer is intended for final preparation of substrates before application of a structural paint in TURBO-WG garage system. It reduces and levels absorptivity of substrates, facilitates application of structural paint finishing coats, increasing its bond strength.

- drying time: ca. 12 hours
- possibility of further works: after ca. 24 hours
- pH: ca. 8
- colour: white
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/20 kg

**Bucket:**

White

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg



- 20 kg
- 33 pcs per pallet
- pallet weight: 740 kg

**LAZUR acrylic 1003**

Colourful finishing of FACADE PLANK



Lazur acrylic for finishing of FACADE PLANK. Resistant to UV. The colour imitates a natural tint of wood.

- consumption: approx. 0,10 l/m<sup>2</sup> in case of painting once
- coverage: up to 25 m<sup>2</sup>/2,5 l

**Bucket:**

- 2,5 l
- 100 pcs per pallet
- pallet weight: 350 kg
- 5 l
- 80 pcs per pallet
- pallet weight: 545 kg

**DECORATIVE FACADE PLANK**

Decorative panel with natural reproduction of wood grains in white. Milled edges give a unique, natural appearance to the facade. It is suitable for small areas and large areas of a surface facade. Adhesive 111 (mounting of plank) supplements the system, LAZUR Acrylic 1003 and waterproofing preparation HYDROMUR-W 1010 and ACRYLIC PAINT 001.

- dimensions of plank: 1980 mm x 160 mm x 10 mm
- area of 1 item: 0,26 m<sup>2</sup>

**Packaging:**

- cartons
- weight of pack 13 kg
- 3,16 m<sup>2</sup> (10 boards per packaging)

**ELASTIC FACADE PLANK**

Decorative, highly-elastic imitation of facade plank. Facade plank in white, for painting with LAZUR acrylic 1003 with reinforcing mesh. Thanks to the thinness of the plank, it can be covered with decorative thin-layer plaster. A plank must be pasted with special ready adhesive 111.

- dimensions of plank: 1980 mm x 160 mm x 3 mm
- area of 1 item: 0,312 m<sup>2</sup>

**Packaging:**

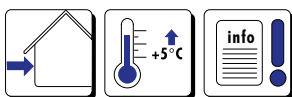
- cartons
- weight of pack 13 kg
- 3,16 m<sup>2</sup> p(10 boards per packaging)

**REINFORCING MESH**



Reinforcing mesh of fibreglass. It is used for creating a base coat in KREISEL thermal insulation systems. Alkaliproof.

- specific weight: approx. 145 g/cm<sup>2</sup> or 160 g/cm<sup>2</sup>
- size of mesh: 4x4 mm
- length of roll: 50 m
- width of roll: 1,1 m
- coverage: 1 m per 1 m<sup>2</sup>
- efficiency: 1 m<sup>2</sup>/ roll



**Dimension:**

- 55 m<sup>2</sup>, 145 g/m<sup>2</sup>
- 55 m<sup>2</sup>, 160 g/m<sup>2</sup>

**SOCLE STRIP**



Starter strip together with a socle profile used in TURBO thermal insulation systems. For systems with styrofoam and mineral wool. Protects the lower edge of a thermal insulation system. Made of durable PVC.

- width of strip: 55 mm, 100 mm
- width of profile: 50 mm, 100 mm
- length: 2,5 m



**Starter strip:**

- 2,5 m, 55 mm
- 2,5 m, 100 mm

**Socle profile:**

- 2,5 m, 50 mm
- 2,5 m, 100 mm

**PVC CORNER WITH REINFORCING MESH / ALUMINIUM**



Intended for protection of corners of buildings against damage, makes it possible to extend corners evenly. It may be used for styrofoam and mineral wool. Waterproof and freezeproof.

- length: 2,5 m



**Dimension:**

- 2,5 m
- 50 pcs per carton

### DRIP STRIP



Strip intended for protection of walls against leaking. Creates rainwater breaks. Used for styrofoam and mineral wool. Ensures durable and elastic finishing of horizontal edges of facade. Made of PVC and mesh of glass fibre.

- length: 2,5 m



#### Dimension:

- 2,5 m
- 25 pcs per carton

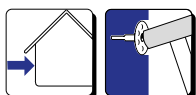
### EJOT TRIO

Mechanical coupling for TURBO thermal insulation systems



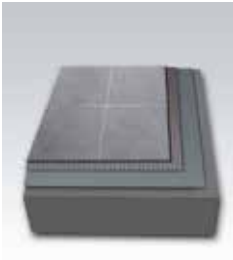
EJOT TRIO is a universal coupling, driven into a substrate to mechanically mount thermal insulation materials (EPS, XPS, hard mineral wool, lamella) to a wall. It is characterized by universality (one sleeve and three types of pivot). It is intended for beds of A type (e.g.: ordinary concrete), B (e.g.: ceramic full brick or silicate full brick), C (e.g.: silicate cored hollow brick and ceramic cavity hollow brick) and E (cellular concrete). One length of the coupling for use with different thicknesses of thermal insulation. Its adaptable anchoring zone makes it possible to adapt the pin to the type of wall.

- diameter of coupling sleeve: 10 mm
- diameter of plate: 60 mm
- minimum depth of mounting opening drilled: 35 mm (65 mm)
- minimum depth of anchoring: 30 mm (60 mm)

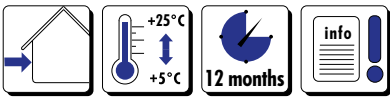


Type	Anchoring depth	Quantity in packaging
Plug with plastic stem		
TRIO TT 160	90-120 mm	200 pcs
TRIO TT 180	110-140 mm	150 pcs
TRIO TT 200	130-160 mm	150 spcs
TRIO TT 220	150-180 mm	100 spcs
Plug with plastic-sprayed steel stem		
TRIO TO 160	90-120 mm	200 pcs
TRIO TO 180	110-140 mm	150 pcs
TRIO TO 200	130-160 mm	150 pcs
TRIO TO 220	150-180 mm	100 spcs
TRIO TO 260	190-220 mm	100 pcs
TRIO TO 300	230-260 mm	100 pcs
Plug with plastic-sprayed steel stem		
TRIO TG 160	90-120 mm	200 pcs
TRIO TG 180	110-140 mm	150 pcs
TRIO TG 200	130-160 mm	150 pcs
TRIO TG 220	150-180 mm	100 pcs

**BALCONY AND TERRACE SYSTEM**



Specialist system for comprehensive installation of ceramic covering on a terrace or balcony slab. It is intended for new and renovated objects. The used components are resistant to thermal stress and changeable weather conditions.



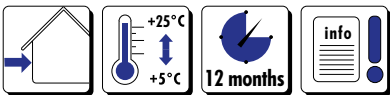
**Composition:**

- GIGA CONCRETE 440, GROUT 420
- Primer: GRUNTOLIT-SG 302, EXPERT 5
- Balcony profile K30
- WATERPROOFING INSULATIONS: AQUASZCZEL 820, FOLBIT Extra 805
- Tile adhesives: KAMLEP PLUS 108, EXPERT 3, EXPERT 4, GEL ADHESIVE 2, GEL ADHESIVE 4
- Grouts: NANOTECH GROUT 730, SILICONE NANOTECH 720
- Balcony profile K30
- Connector L30
- Bumper OP 30
- Corner 90 to the balcony profile

**ANTI-MOULD SYSTEM**



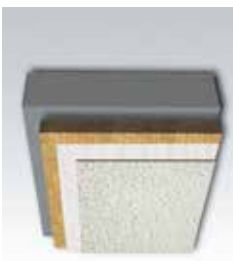
Proven solution for cleaning and renovating biologically infected facades. Used on thin-layer plasters, coats of facade paints, concretes and other mineral beds. It is characterised by high effectiveness.



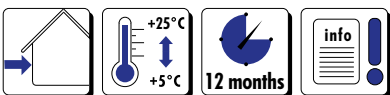
**Composition:**

- SEPTOBUD 1008
- GRUNTOLIT-SO 305
- Paints: SILICON 003, SISI 004, NANOTECH 006, BIOPAINT 008, ECOPAINT 009

**TURBO-WG GARAGE SYSTEM**



Thermal insulation system for ceilings above non-heated rooms and garage ceilings. It is based on mineral wool and special STRUCTURAL PAINT 071. It does not require mechanical mounting. This system is mainly characterised by high economy, it is a safe solution in all conditions.



**Composition:**

- LEPSTYR-WG 231
- TYNKOLIT G-SA 342
- STRUCTURAL PAINT 071

# Paints

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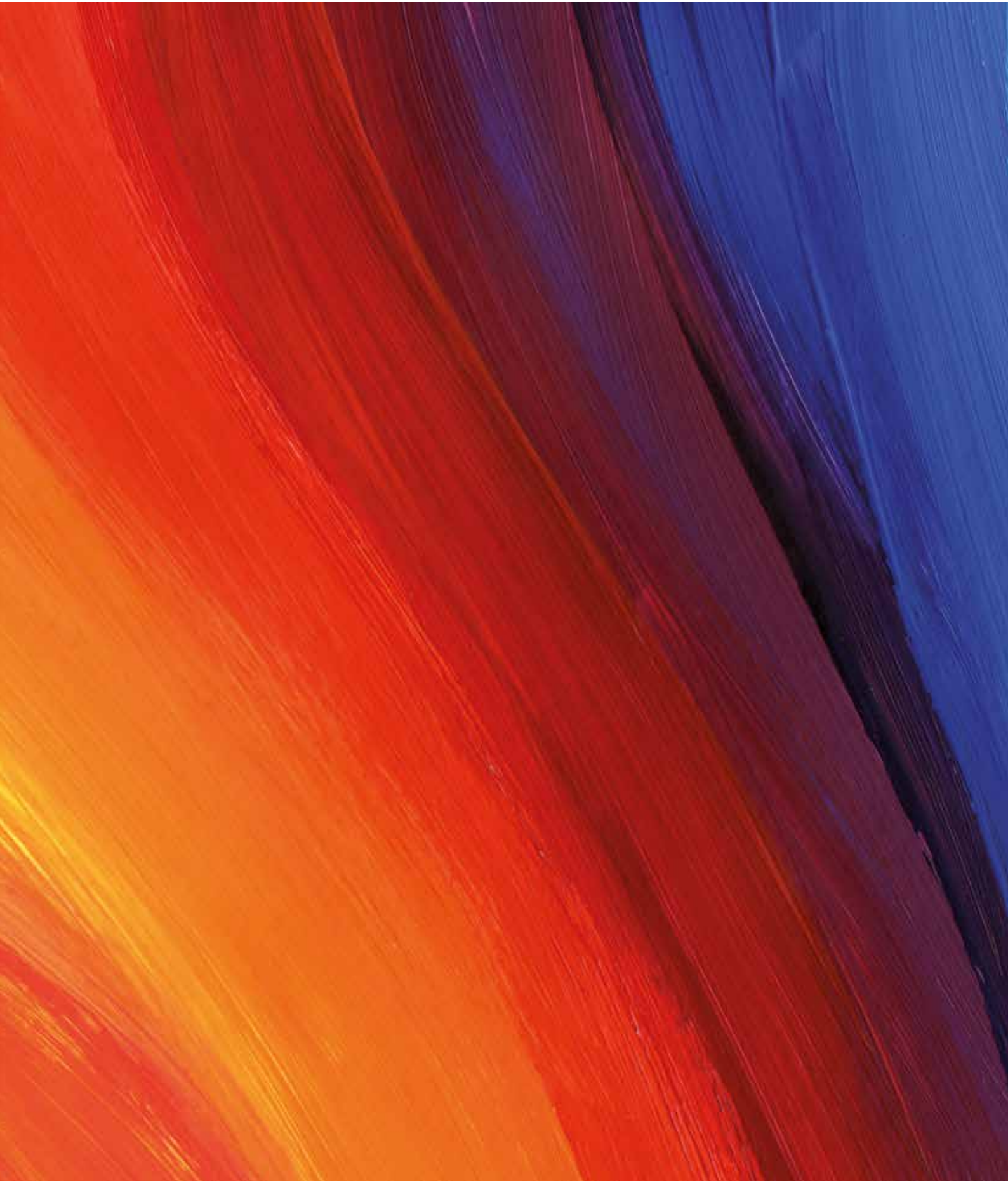




Table 7. Properties of outdoor paints

	 ACRYLIC PAINT 001	 SILICATE PAINT 002	 SILICONE PAINT 003	 SISI PAINT 004	 NANOTECH PAINT 006	 ELASTIC PAINT 007	 BIO PAINT 008	 ECO PAINT 009
Coverage	●●	●●	●●	●●	●●	●	●●	●●
Coating quality	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●
Resistance to washing	●●	●●	●●●	●●	●●●	●●●	●●●	●●
Resistance to scrubbing	●●●	●●	●●●	●●	●●●	●●●	●●●	●●
Vapour permeability	●	●●●	●●●	●●●	●●●	●	●●●	●●●
Resistance to weather conditions	●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●
Resistance to biological aggression	●	●●	●●●	●●	●●●	●●	●●●	●●●
Resistance to soiling	●	●●	●●●	●●	●●●	●●●	●●●	●●●
Scratch bridging	●	●	●	●	●	●●●	●	●
Frost resistance	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●
Water resistance	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●●
Indoor application	yes	yes	yes	yes	yes	yes	yes	yes
Outdoor application	yes	yes	yes	yes	yes	yes	yes	yes

●●● High ●● Good ● Weak

### PRIMER PAINT 018

**NEW**

Paint for bottom painting of substrate



Specialist acrylic paint with increased coverage for basecoat painting of a substrate before the application of a coloured topcoat paint. It evens out the substrate colour. Ideal before application of intense colours. After drying up, it is waterproof and freezeproof. Available in white or tinted in colour of facade paint. For all types of paints.

- drying up time of coating: ca. 12 hours
- bulk density: ca. 1,60 g/cm<sup>3</sup>
- consumption: ca. 0,20 l/m<sup>2</sup> per layer
- coverage: up to 5,0 m<sup>2</sup> /1l



Bucket:

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg
- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

### ACRYLIC PAINT 001

Facade paint for traditional substrate



Ecological paint for decorative painting of substrates such as cement-lime, mineral plasters and plaster boards. High coverage, for application inside and outside buildings.

- diffusion factor  $\mu$ :  $\leq 13000$
- drying up time of coating: ca. 12 hours
- consumption: ca. 0,15-0,30 l/m<sup>2</sup> per layer
- coverage: up to 100,0 m<sup>2</sup>/bucket 15 l



Bucket:

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg
- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

### SILICATE PAINT 002

Siliceous facade paint for mineral substrate



Facade paint for mineral and renovation plasters, ideal for renovation of historic buildings. Highly vapour permeable, perfectly binds substrate. Ecological paint for painting cement-lime, lime, mineral plasters and plasterboard substrates. High coverage. For application inside and outside buildings.

- surface absorption coefficient:  $< 0,46 \text{ kg}/(\text{m}^2/\text{h})$
- relative diffusion resistance: ca. 0,03 m
- drying up time of coating: ca. 12 hours
- consumption: ca. 0,15-0,30 l/m<sup>2</sup> per layer
- coverage: up to 100,0 m<sup>2</sup>/bucket 15 l



Bucket:

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg
- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

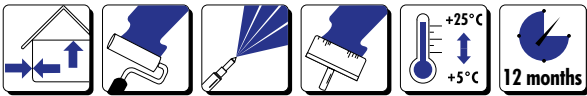
## SILICONE PAINT 003

Facade silicone paint



Easily washable facade paint, ideal for all mineral substrates (cement-lime, lime plasters, concretes) and thermal insulation systems. Especially recommended for renovation of facades and historic buildings. Self-cleaning properties. Vapour permeable, resistant to UV and high coverage.

- diffusion factor  $\mu$ :  $\leq 920$
- drying time of coating: ca. 12 hours
- consumption: ca. 0,15-0,30 l/m<sup>2</sup> per layer
- coverage: up to 100,0 m<sup>2</sup>/bucket 15 l



Bucket:

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg
- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

## SISI PAINT 004

Facade silicate-silicone paint



Universal facade paint for all mineral substrates and thermal insulation systems. Especially recommended for substrates exposed to impact of environmental factors. Vapour permeable, washable with high coverage, for application inside and outside buildings.

- diffusion factor  $\mu$ :  $\leq 1450$
- drying time of coating: ca. 12 hours
- consumption: ca. 0,15-0,30 l/m<sup>2</sup> per layer
- coverage: up to 100,0 m<sup>2</sup>/bucket 15 l



Bucket:

- 5 l
- 80 pcs per pallet
- pallet weight: 648 kg
- 15 l
- 33 pcs per pallet
- pallet weight: 795 kg

## NANOTECH PAINT 006

Nano-silicone facade paint



Specialist facade paint with self-cleaning properties, ideal for all mineral substrates (cement-lime, cement plasters, concretes), thermal insulation systems and for renovation of historic buildings. Especially recommended for renovation of facades. Highly hydrophobic, easily washable, resistant to UV with high coverage. Intended for interiors and exteriors.

- diffusion factor  $\mu$ :  $\leq 1630$
- drying time of coating: ca. 12 hours.
- consumption: ca. 0,15-0,30 l/m<sup>2</sup> per layer
- coverage: 100,0 m<sup>2</sup>/bucket 15 l



Bucket:

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg
- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

### ELASTIC PAINT 007

Elastic silicone paint bridging shrinkable cracks



Specialist, durable, elastic facade paint for cracked places. Intended for painting decorative, cement-lime plasters and concretes. For renovation of facades. Vapour permeable, easily washable, resistant to scrubbing and highly resistant to UV.

- diffusion factor  $\mu$ :  $\leq 20000$
- drying up time of coating: ca. 12 hours
- it bridges scratches up to 0,5 mm
- consumption: ca. 0,20-0,30 l/m<sup>2</sup> per layer
- coverage: up to 75,0 m<sup>2</sup>/bucket 15 l



**Bucket:**

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg

- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

### BIOPAINT 008

Polysilicone facade paint resistant to biological growth



Innovative facade paint with the highest biological protection. Thanks to using the BIO PRUF system it is an ideal solution for places exposed to algae, mildew fungi growth (near forests, parks and large bodies of water). Used for painting all mineral, concrete beds and decorative plasters of all types. Vapour permeable, easily washable, resistant to scrubbing, elastic and highly hydrophobic.

- diffusion factor  $\mu$ :  $\leq 20000$
- drying up time of coating: ca. 12 hours
- it bridges scratches up to 0,5 mm
- consumption: ca. 0,20-0,30 l/m<sup>2</sup> per layer
- coverage: up to 75,0 m<sup>2</sup>/bucket 15 l



**Bucket:**

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg

- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

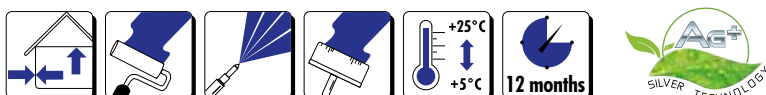
### ECO PAINT 009

Ecological facade paint



Innovative paint, based on ecological polymeric adhesives, natural fillers with the ECO PROTECT biological protection system based on active silver. It does not contain biocides. Intended for painting facades and interiors. It is appropriate for application on different kinds of thin-layer plasters, concrete substrates, cement-lime substrates, gypsum and other mineral substrates. High quality of coating, with decreased absorptivity.

- diffusion factor  $\mu$ :  $\leq 850$
- drying up time of coating: ca. 12 hours
- consumption: ca. 0,15-0,30 l/m<sup>2</sup> per layer
- coverage: up to 100 m<sup>2</sup>/bucket 15l



**Bucket:**

- 5 l
- 80 pcs per pallet
- pallet weight: 632 kg

- 15 l
- 33 pcs per pallet
- pallet weight: 775 kg

**STRUCTURAL PAINT 071**

Mineral paint for garage system



Mineral structural paint for machine-made decorative, white coating in thermal insulation system of garage ceilings TURBO-WG. Highly vapour permeable. Impact resistant.

- impact resistance: > 3 J
- bulk density: ca. 1,20 g/cm<sup>3</sup>
- grain size: 1,0 mm
- consumption ca: 1,3-3,0 kg m<sup>2</sup>
- coverage: up to 19,0 m<sup>2</sup>/bag 25 kg



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## PAINT PROFESSIONAL 013

**NEW**

Developer paint for spray painting



Super white paint based on water dispersion of acrylic resin, intended for professional painting of interiors by pneumatic or hydrodynamic spraying. Perfect for painting fresh cement-lime or gypsum plasters.

- drying up time of coating: ca. 6 hours
- bulk density: ca. 1,45 g/cm<sup>3</sup>
- consumption: ca. 0,10 l/m<sup>2</sup> per layer
- coverage: up to 10,0 m<sup>2</sup> / 1 l



**Bucket:**

- 18 l
- 33 pcs per pallet
- pallet weight: 880 kg

## ACRYLIC PAINT SUPER WHITE 012

Extra white paint for indoor applications



Paint for walls and ceilings in all rooms. Ideal for the first painting of finishes and gypsum plasters as well as cement-lime plasters. Good quality of coating and durability of whiteness, vapour permeable.

- drying up time of coating: ca. 6 hours
- bulk density: ca. 1,45 g/cm<sup>3</sup>
- consumption: ca. 0,10 l/m<sup>2</sup> per layer
- coverage: up to 10,0 m<sup>2</sup>/1 l



**Bucket:**

- 10 l
- 33 pcs per pallet
- pallet weight: 501 kg

- 18 l
- 33 pcs per pallet
- pallet weight: 880 kg

## INTERIOR PAINT colour 014

Interior acrylic paint with high quality, resistant to abrasion



High-quality acrylic paint for painting interiors. Ecological, non-drip, resistant to abrasion and scrubbing. With high quality of coating and high spreading rate. Intended for plasters, plasterboards and finishes.

- drying up time of coating: ca. 6 hours
- bulk density: ca. 1,42 g/cm<sup>3</sup>
- consumption: ca. 0,10 l/m<sup>2</sup> per layer
- coverage: up to 10,0 m<sup>2</sup> / 1 l



**Bucket:**

- 2,5 l
- 100 pcs per pallet
- pallet weight: 417 kg

- 5 l
- 80 pcs per pallet
- pallet weight: 654 kg

- 10 l
- 33 pcs per pallet
- pallet weight: 541 kg

## LATEX PAINT 011

Mat, high-quality interior paint, resistant to scrubbing.



The highest-quality paint for walls and ceilings in residential, public and industrial rooms as well as health care buildings (consulting-rooms, operating rooms etc.). It is characterised by high quality of coating and high spreading rate. Non-drip. Used on plasters, plasterboards and finishes.

- drying time of coating: ca. 2 hours
- bulk density: ca. 1,41 g/cm<sup>3</sup>
- consumption: ca. 0,080 l/m<sup>2</sup> per layer
- coverage: up to 12,5 m<sup>2</sup> / 1 l

**Bucket:**

- 2,5 l
- 100 pcs per pallet
- pallet weight: 389 kg
- 5 l
- 80 pcs per pallet
- pallet weight: 610 kg
- 10 l
- 33 pcs per pallet
- pallet weight: 504 kg

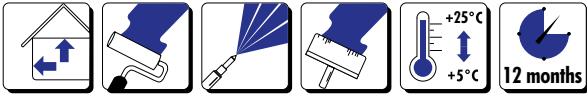


Table 8. Properties of indoor paints



	LATEX PAINT 011	ACRYLIC PAINT 012	PAINT PROFESSIONAL 013	INTERIOR PAINT COLOR 014
Coating quality	● ● ●	● ●	● ●	● ● ●
Coverage	● ● ●	● ●	● ●	● ●
Dry abrasion resistance	● ● ●	● ●	● ●	● ● ●
Wet abrasion resistance	● ● ●	●	●	● ●
Resistance to scrubbing	● ●	●	●	● ●
Ease of painting	● ● ●	● ●	● ●	● ● ●
Possibility of dyeing	● ● ●	● ●	● ●	● ● ●

● ● ● very good ● ● good ● low ● none

# Tile products

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Table 9. The scope of application of tile adhesives

							
	TILE ADHESIVE 100 2in1	UNI MUTLI 101	MULTI 102	ELASTI MULTI 104	GRES MULTI 105	EXPRESS 106	DISPERSION ADHESIVE 111
Class	C1T	C1	C1T	C2TE	C2T	C2FT	D2E
Bathrooms and kitchens	●	●	●	●●	●●	●●	●●
Terraces and balconies	●	●	●	●●	●●	●●	●●
Plasters, cement screeds	●	●	●	●●	●●	●●	●●
Plaster-cardboard (drywall) panels	●	●	●	●●	●●	●●	●●
Terrazzo, old tiles, bottom-of-wall oil coatings	●	●	●	●●	●	●●	●
Floor, wall heating systems	●	●	●	●●	●●	●●	●●
Facades, thermal insulation systems	●	●	●	●●	●	●●	●●
OSBs and chipboards	●	●	●	●	●	●	●●

●● Best solutions ● Allowed solutions ● Not recommended solutions

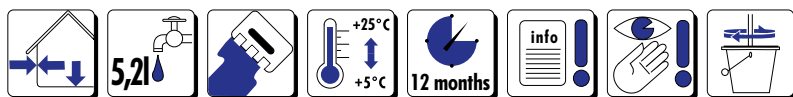
**TILE ADHESIVE 100 2 in 1**

Levelling-adhesive grout, C1T class



Elasticised adhesive for applying wall and floor tiles, as well as for levelling indoor and outdoor groundworks. For bathrooms and kitchens. Can be applied on concrete, cement-lime plaster, cement screed, non-plastered walls or other groundworks guaranteeing good adhesion of cement grout. Suitable for applying gres tiles on indoor surfaces. Contains arming fibres.

- adhesive thickness: up to 30 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 15 min.
- consumption: ca. 18 kg/m<sup>2</sup>/1 cm
- coverage: ca. 1,4 m<sup>2</sup>/bag/1 cm

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

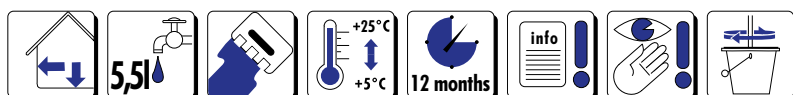
**UNI MULTI 101**

Indoor tile adhesive, C1 class



Thin-layer mortar intended for applying ceramic tiles on non-deforming indoor groundworks, for applying to solid bases such as plaster and concrete inside rooms.

- adhesive thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 10 min.
- consumption: avg ca. 5,0 kg/m<sup>2</sup>
- coverage: ca. 5,0 m<sup>2</sup>/bag

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

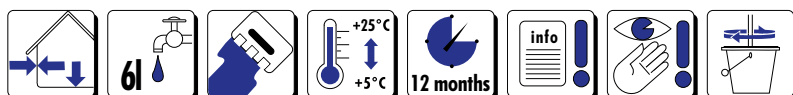
**MULTI 102**

Basic, frost-proof adhesive, C1T class



Thin-layer mortar intended for applying ceramic tiles on non-deforming indoor groundworks for applying to solid bases such as plaster and concrete inside and outside rooms. Thixotropic waterproof and frost-resistant.

- adhesive thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 10 min.
- consumption: ca. 5,0 kg/m<sup>2</sup>
- coverage: ca. 5,0 m<sup>2</sup>/bag

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

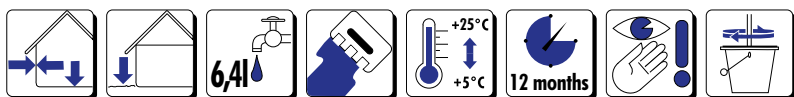
## ELASTI MULTI Special 104

Elastic, universal adhesive, C2TE class



Elastic layer mortar intended for applying ceramic clinker, terracotta gres tiles. Perfect for terraces, balconies and bathrooms and kitchens. On non-deforming indoor groundworks, solid bases, such as plaster. Thixotropic mortar about extended opened time.

- adhesive thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: 5,5 m<sup>2</sup>/bag



- Bag:**
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

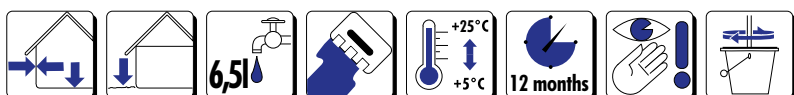
## GRES MULTI 105

Elastic adhesive for gres, C2T class



Perfect for sticking all types of gres tiles and clinker. Very good for terraces, balconies, bathrooms and kitchens and for plaster and concrete with underfloor heating.

- adhesive thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 20 min.
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



- Bag:**
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

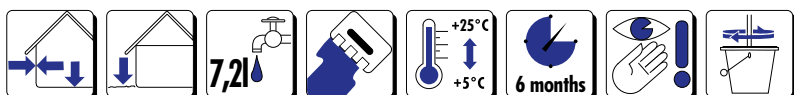
## EXPRESS 106

Quick-setting, elastic adhesive for all types of tiles, C2FT class



Intended for quick application of all tiles (clinker, terracotta gres tiles) Perfect for corridors, shop areas and terraces, balconies. Bathrooms, plaster and concrete with underfloor heating, liquid foils, sealing mortars and old facings.

- adhesive thickness: up to 5 mm
- foot traffic: after 4 hours
- grouting: after 4 hours
- adjustability time: up to 15 min.
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



- Bag:**
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

## READY-TO-USE ADHESIVE FOR TILES 111

Highly flexible dispersion adhesive, D2E class



Multifunctional, ready-to-use adhesive for ceramic, gypsum, stone tiles, etc. class D2E. Perfect for difficult bases, such as OSB boards. For use in bathrooms with underfloor heating. For use on plaster or concrete, liquid foils, sealing mortars and old facings. Waterproof and frost-resistant. For the assembly of decorative tiles and inside elements and outside.

- adhesive thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after 72 hours
- adjustability time: up to 30 min.
- consumption: ca. 3,0 kg/m<sup>2</sup>
- coverage: 5,0 m<sup>2</sup>/bucket

### Bucket:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg
- 15 kg
- 33 pcs per pallet
- pallet weight: 542 kg

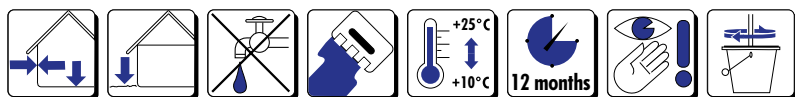


Table 10. The scope of application of tile adhesives

	 EXPERT 1	 EXPERT 2	 EXPERT 2 WHITE	 EXPERT 3	 EXPERT 4
Class	<b>C1T</b>	<b>C2TE</b>	<b>C2TE</b>	<b>C2TES1</b>	<b>C2TES2</b>
Bathrooms and kitchens	●	●●	●●	●●	●●
Terraces and balconies	●	●	●	●●	●●
Plasters, cement screeds	●	●●	●●	●●	●●
Plaster-cardboard (drywall) panels	●	●	●	●●	●●
Terrazzo, old tiles, bottom-of-wall oil coatings	●	●	●	●●	●●
Floor, wall heating systems	●	●●	●●	●●	●●
Facades, thermal insulation systems	●	●	●	●●	●●
OSBs and chipboards	●	●	●	●	●●

●● Best solutions ● Allowed solutions ● Not recommended solutions

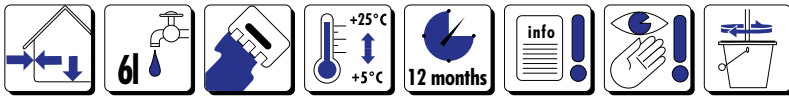
## EXPERT 1

Freezeproof tile adhesive, C1T class



For fixing ceramic tiles to rigid substrates. For traditional substrates such as plasters, concretes, screeds and for plasterboards.

- adhesive thickness: up to 10 mm
- foot traffic: 24 hours
- grouting: after 48 hours
- adjustability time: up to 10 min.
- adhesion:  $\geq 0,5$  MPa
- consumption: ca.  $5,0$  kg/m<sup>2</sup>
- coverage: ca.  $5,0$  m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

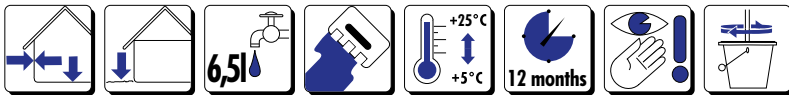
## EXPERT 2

Elastic gres tile adhesive, C2TE class



For fixing gres and ceramic tiles, terracotta and clinker tiles. For terraces and balconies, for bathrooms and kitchens. For substrates such as plasters, concretes, plasterboards, liquid foils and screeds - also with floor heating system.

- adhesive thickness: up to 10 mm
- foot traffic: 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: ca.  $4,5$  kg/m<sup>2</sup>
- coverage: ca.  $5,5$  m<sup>2</sup>/bag

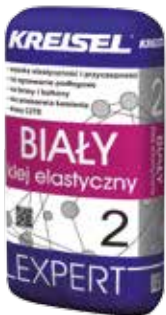


Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

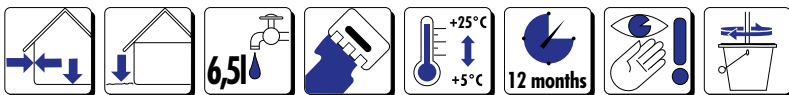
## EXPERT 2 WHITE

White, elastic adhesive for all types of tiles, C2TE class



For fixing tiles of natural stone as well as gres, ceramic, terracotta and clinker tiles. For terraces and balconies, for bathrooms and kitchens. For substrates such as plasters, concretes, screeds - also with floor heating system, plasterboards, liquid foils and sealing mortars.

- adhesive thickness: up to 10 mm
- foot traffic: 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: ca.  $4,5$  kg/m<sup>2</sup>
- coverage: ca.  $5,5$  m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

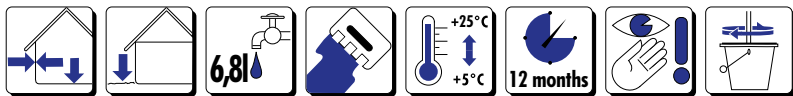
### EXPERT 3

Deformable adhesive for all types of tiles, C2TES1 class



For all types and formats of tiles: gres, ceramic, terracotta and clinker. Intended for terraces, balconies, for swimming pools and bathrooms as well as for difficult substrates such as bases with floor heating system, old ceramic covering, terrazzo, chipboards and oil dados. It contains reinforcing fibres and rubber flour.

- adhesive thickness: up to 10 mm
- foot traffic: 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

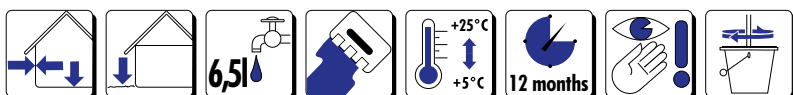
### EXPERT 4

Highly-deformable white adhesive for all types of tiles, C2TES2 class



Intended for difficult substrates such as bases with floor heating system, old ceramic covering, terrazzo, chipboards, OSBs and oil dados. Intended for all types and formats of tiles. Ideal for natural stone and for terraces, balconies, for swimming pools and saunas. It contains reinforcing fibres and rubber flour.

- adhesive thickness: up to 10 mm
- foot traffic: 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: ca. 5,0 kg/m<sup>2</sup>
- coverage: ca. 5,0 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**GEL ADHESIVE 1 elastified**

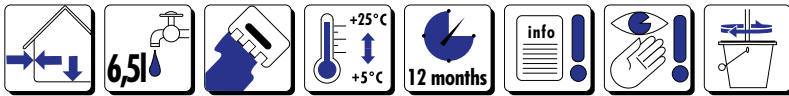
**NEW**

Quick-setting, elastic tile adhesive, C2FT class



Intended for quick application of all tiles (clinker, terracotta gres tiles) Perfect for corridors, shop areas and terraces, balconies. Into bathrooms to plaster and concrete with underfloor heating, liquid foils, sealing mortars and old facings.

- adhesive thickness: 2 - 15 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: avg ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,0 m<sup>2</sup>/ bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

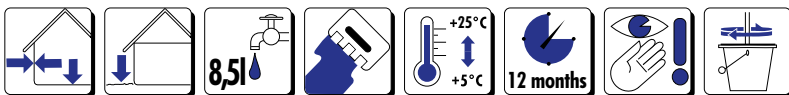
**GEL ADHESIVE 2 with nanoparticles**

Elastic tile adhesive with nanoparticles, C2TE class



Modern fine-grained glue for all kinds and formats of tiles. For application on difficult substrates such as oil dados, old tiles, underfloor heating, terraces and balconies. Easy to apply, contains supplements which improve working properties. Add water to desired consistency.

- adhesive thickness: up to 15 mm
- foot traffic: after 12 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

- 5 kg
- 4 pcs per carton
- 128 pcs per pallet
- pallet weight: 670 kg

**GEL ADHESIVE 3 white**

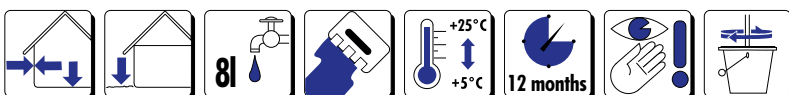
**NEW**

White, elastic gel adhesive for all types of tiles, C2TE class



Modern, fine-grained adhesive for fixing all types of stone, concrete, gypsum tiles as well as: ceramic, gres tiles. Used on difficult substrates: oil dados, old ceramic tiles, floor heating. On terraces and balconies. White colour prevents discolouration. Easy application, highly adhesive, contains additives improving working properties.

- adhesive thickness: up to 15 mm
- foot traffic: after 12 hours
- grouting: after 36 hours
- adjustability time: up to 30 min.
- consumption: avg ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,0 m<sup>2</sup>/ bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## GEL ADHESIVE 4 deformable

**NEW**

Deformable, grey gel adhesive for all types of tiles, C2TE S1 class



Modern, fine-grained adhesive for fixing mainly large tiles, quartz sinters and other types of ceramic, stone, concrete, gypsum tiles. Used on difficult substrates: oil dados, old ceramic tiles, floor heating. For terraces, balconies and facades as well as for swimming pools. It is characterised by high durability at joints and it compensates for stress between the tile and a substrate.

- adhesive thickness: 2-15 mm
- foot traffic: after 12 hours
- grouting: after 36 hours
- adjustability time: up to 30 min.
- consumption: avg ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/ bag

Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

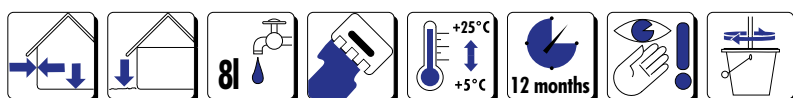






Table 11. The scope of application of tile adhesives

	 GEL ADHESIVE 1 ELASTIFIED	 GEL ADHESIVE 2 WITH NANOPARTICLES	 GEL ADHESIVE 3 WHITE	 GEL ADHESIVE 4 DEFORMABLE
Class	<b>C1TE</b>	<b>C2TE</b>	<b>C2TE</b>	<b>C2TES1</b>
Bathrooms and kitchens	●	●●	●●	●●
Terraces and balconies	●	●	●	●●
Plasters, cement screeds	●	●●	●●	●●
Plaster-cardboard (dry-wall) panels	●	●	●	●●
Terrazzo, old tiles, bottom-of-wall oil coatings	●	●	●	●●
Floor, wall heating systems	●	●●	●●	●●
Facades, thermal insulation systems	●	●	●	●●
OSBs and chipboards	●	●	●	●

●● Best solutions ● Allowed solutions ● Not recommended solutions



### How to calculate the required amount of expansion grout?

The needed volume of cement joint mortar shall be determined by assuming the consumption rate of 2 g of dry mixture per 1 cubic centimetre of joint volume. This value takes into account approx. 20% of mortar loss for smoothing. Mortar demand shall be calculated by multiplying the consumption coefficient (see Table 12) by the joint length per 1 sq. m. of the surface (see Table 13) and by the area of the joined covering or lining.

**Table 12. The average consumption of dry mortars for expansion joints in grams per 1 metre of joint length (assuming the consumption of 2 g/cubic centimetre)**

Joint width mm	Joint depth, mm										
	5	6	7	8	9	10	11	12	13	14	15
Consumption coefficient, g/m											
2	20	24	28	32	36	40	44	48	52	56	60
3	30	36	42	48	54	60	66	72	78	84	90
4	40	48	56	64	72	80	88	96	104	112	120
5	50	60	70	80	90	100	110	120	130	140	150
6	60	72	84	96	108	120	132	144	156	168	180
7	70	84	98	112	126	140	154	168	182	196	210
8	80	96	112	128	144	160	176	192	208	224	240
9	90	108	126	144	162	180	198	216	234	252	270
10	100	120	140	160	180	200	220	240	260	280	300
11	110	132	154	176	198	220	242	264	286	308	330
12	120	144	168	192	216	240	264	288	312	336	360
13	130	156	182	208	234	260	286	312	338	364	390
14	140	168	196	224	252	280	308	336	364	392	420
15	150	180	210	240	270	300	330	360	390	420	450

**Table 13. Joint length per 1 sq. m. of surface**

Tile dimensions [cm]	Joint length [m/m <sup>2</sup> ]	Tile dimensions [cm]	Joint length [m/m <sup>2</sup> ]	Tile dimensions [cm]	Joint length [m/m <sup>2</sup> ]
5 × 5	38,5	15 × 24,5	10,6	25 × 40	6,4
6 × 24,5	20,0	20 × 20	9,9	29,7 × 29,7	6,7
6,5 × 24,5	18,9	20 × 25	8,9	30 × 30	6,6
10 × 10	19,6	20 × 30	8,2	30 × 50	5,2
10 × 20	14,7	20 × 33,3	7,9	30 × 60	4,9
11,5 × 24	12,6	22,5 × 30	7,7	33,3 × 33,3	5,9
12 × 24,5	12,1	24 × 24	8,2	35 × 35	5,6
15 × 15	13,2	25 × 25	7,9	40 × 40	4,9
15 × 20	11,5	25 × 33,3	6,9	50 × 50	3,9
15 × 22,5	11,0	25 × 35	6,7	60 × 60	3,3

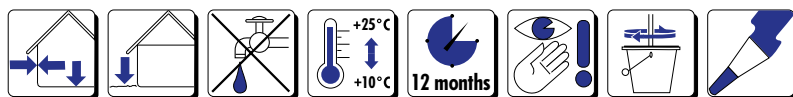
## GROUT EPOXI 710

Epoxide pointing mortar, 1-10 mm



Mortar intended for pointing substrates which must meet high requirements for chemical and mechanical resistance e.g. swimming pools, industrial kitchens, sewage treatment plants and butcheries.

- foot traffic: after 24 hours
- compressive strength:  $\geq 45$  MPa
- chemical resistance: 35% sulphuric acid, 20% soda lye, 3% hydrochloric acid, 10% citric acid, 5% lactic acid
- classification according to PN-EN 13888:2010:RG
- coverage: for tile 30x30 cm and joint 4 mm - ca. 0,37 kg / m<sup>2</sup>



**Bucket:**

Grey, beige, white:

- 5 kg
- 96 pcs per pallet
- pallet weight: 330 kg

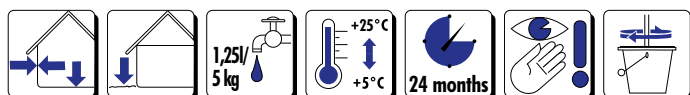
## NANOTECH GROUT 730

Mortar for pointing with nanoparticles, 1-20 mm



Mortar based on nanotechnology intended for pointing wall and floor ceramic tiles, terracotta, gres, concrete tiles and tiles of natural and artificial stone not susceptible to discolouration. It is characterised by increased abrasion resistance. Colour table: page 130.

- foot traffic: after 6 hours
- compressive strength:  $\geq 15$  MPa
- flexural strength:  $\geq 3,5$  MPa
- classification according to PN-EN: 13888:2010:CG2WA
- consumption: for tile 30x30 cm and joint 3 mm - ca. 0,45 kg/m<sup>2</sup>



**Bag:**

24 colours

- 2 kg
- 8 pcs per carton
- 240 pcs per pallet
- pallet weight: 542 kg

- 5 kg
- 4 pcs per carton
- 128 pcs per pallet
- pallet weight: 670 kg

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

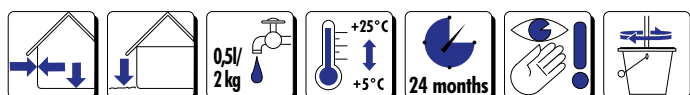
## SILVER GROUT 731

Specialist grout with nanoparticles of silver, 1-20 mm



Mortar intended for pointing all types of wall and floor tiles inside and outside buildings. Thanks to an addition of silver ions it is characterised by high resistance to biological growth. It makes it possible to obtain joints with low absorptivity with an effect of pearling. Colour table: page 130

- foot traffic: after 6 hours.
- compressive strength:  $\geq 15$  MPa
- flexural strength:  $\geq 3,5$  MPa
- classification according to PN-EN: 13888:2010:CG2WA
- coverage: for tile 30x30 cm and joint 3 mm - 0,45 kg / m<sup>2</sup>



**Bucket:**

24 colours

- 2 kg
- 268 pcs per pallet
- pallet weight: 536 kg

## SILICONE NANOTECH 720

*Silicone sealing compound*



Resistant to mildew fungi - compound for sealing couplings around wash-basins, baths, paddling pools and shower cubicles as well as for corner pointing of ceramic tiles, expansion joints, sealing pipes and connections with HW. Used as a universal sealing agent for filling slits between building materials and decorative elements.

Colour table: page 130

- time of complete hardening: 2 mm / 24 hours
- processing time: up to 25 min.
- resistance to temperatures: from  $-40^{\circ}\text{C}$  to  $+180^{\circ}\text{C}$
- change of volume:  $\leq 10\%$
- coverage: up to 16 mm from a cartridge

### Cartouches:

#### 25 colours

- 280 ml
- 15 pcs per carton
- 1260 pcs per pallet
- weight carton: 4,2 kg
- pallet weight: 342 kg



# Stone products

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Table 14. Application of stone adhesives



	KAMLEP PLUS 108	FASADE STONE ADHESIVE 102K	READY-TO-USE STONE ADHESIVE 111K	GYPSUM STONE ADHESIVE 681
Base	cement	cement	cement	gypsum
Colour	white	grey	white	white
Class	C2TE	C1T	D2E	-
APPLICATION:				
Indoor	● ●	● ●	● ●	● ●
Outdoor	● ●	●	●	●
DECORATIVE STONE:				
Gypsum	●	●	● ●	● ●
Cement	● ●	● ●	● ●	●
Concrete	● ●	● ●	● ●	●
NATURAL STONE:				
Marble	● ●	●	● ●	●
Travertine	● ●	●	● ●	●
Granite	● ●	●	● ●	●

● ● Best solutions ● Allowed solutions ● Not recommended solutions

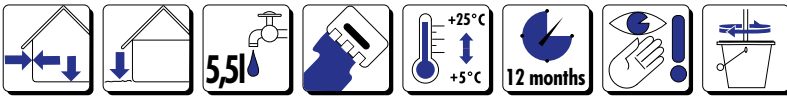
## KAMLEP PLUS 108

White, elastic adhesive mortar for natural stone, C2TE class



Intended for applying tiles and calibrated natural stone panels (marble, limestone, sandstone, granite, etc.) both on rigid and deforming groundworks. Can also be used for applying all types of ceramic tiles (ceramic, clinker, gres), including large tiles. Intended for balconies and terraces, for humid rooms, to be applied on cement and anhydrite screed with floor heating.

- layer thickness: up to 15 mm
- foot traffic: after 18 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: avg ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 5,5 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

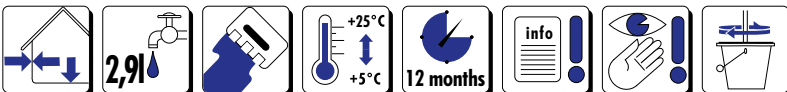
## FASADE STONE ADHESIVE 102K

Freezeproof stone adhesive, C1T class



Freezeproof, basic cement adhesive for tiles of artificial stone: concrete, gypsum and of conglomerate. It is characterised by high bond strength and easy use. Ideal for interiors. Suitable for substrates of cement, cement-lime, gypsum plasters. Waterproof after hardening.

- layer thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after min 48 hours
- adjustability time: up to 10 min.
- consumption: ca. 4,0 kg/m<sup>2</sup>
- coverage: ca. 3,0 m<sup>2</sup>/ bag



Bucket:

- 12 kg
- 33 pcs per pallet
- pallet weight: 604 kg

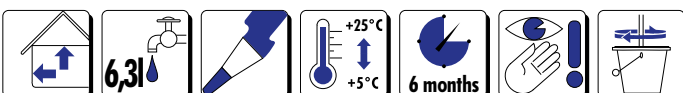
## GYPSUM STONE ADHESIVE 681

Gypsum adhesive for stone tiles



Gypsum adhesive for gypsum tiles imitating stone, brick etc. It is characterised by very high bond strength and easy use. Ideal for interiors. Suitable for substrates of cement, cement-lime, gypsum plasters, for plasterboards.

- layer thickness: up to 10 mm
- grouting: after 24 hours
- adjustability time: up to 10 min.
- consumption: avg ca. 3,0 kg/m<sup>2</sup>
- coverage: ca. 4,0 m<sup>2</sup>/ bucket



Bucket:

- 12 kg
- 33 pcs per pallet
- pallet weight: 604 kg

NEW

NEW

**READY-TO-USE STONE ADHESIVE 111K**

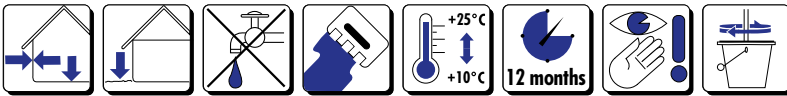
**NEW**

Ready-to-use stone adhesive, D2E class



Specialist, ready-to-use adhesive for stone, concrete, gypsum tiles and tiles of stone conglomerate. Characterised by easy application and high bond strength on a wall. It is highly adhesive to difficult substrates such as OSBs, chipboards, plasterboards. For application inside and outside buildings. White. Ideal also for mosaic tiles.

- layer thickness: up to 5 mm
- foot traffic: 24 hours
- grouting: after 72 hours
- adjustability time: up to 30 min.
- consumption: avg ca. 3,0 kg/m<sup>2</sup>
- coverage: ca. 2,3 m<sup>2</sup>/ bucket



Bucket:

- 7 kg
- 80 pcs per pallet
- pallet weight: 604 kg

**GROUT FOR FACADE STONE 702**

**NEW**

Grout for facade stone



Mortar for pointing boards and tiles of artificial and natural facade stone. It is also suitable for clinker and other types of ceramic lining. Since it contains trass there is a smaller risk of salt efflorescence. It makes it possible to obtain joints with high stability of colour and bond strength. For application inside and outside rooms.

Colour table: page 130

- joint width: from 5 to 25 mm
- foot traffic: after 24 hours
- compressive strength: ≥ 15 MPa
- consumption: depends on size of tiles and joint width



Bag:

White, graphite, sand, light grey, grey, brick-red, brown, black:

- 5 kg
- 4 pcs per carton
- 128 pcs per pallet
- pallet weight: 1230 kg

# Clinker products

---

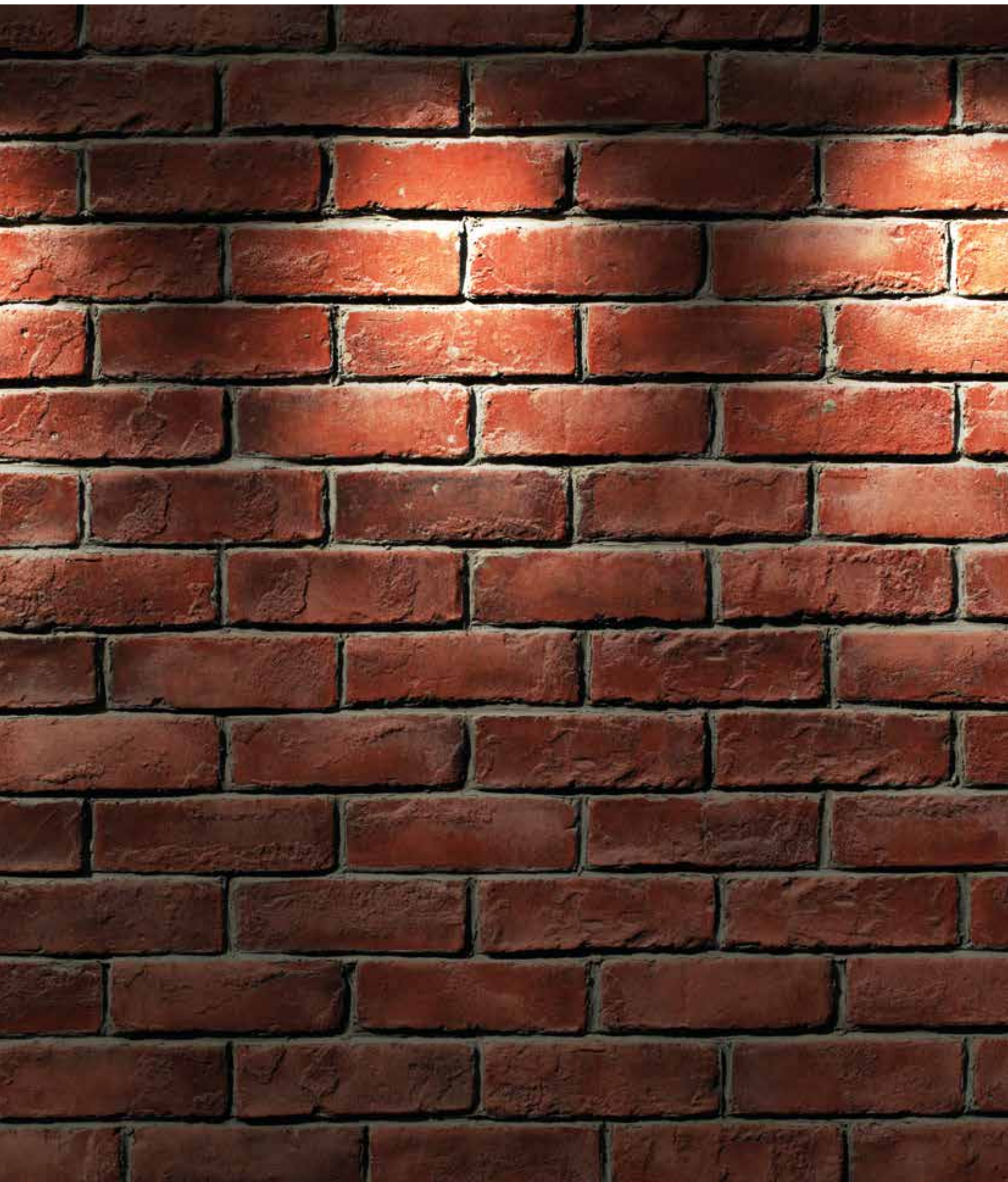




Table 15. Clinker products



POZMUR-KL NANO 130



KLINKIER MULTI 112



CLINKER GROUT 701



FRONTA 1001

Colour	white, light grey, graphite, black, sand, brown, brick red	grey	white, light grey, graphite, black, sand, brown, brick red	Colourless
Intended use	Bricklayer bricks	Gluing tiles	Grouting bricks and tiles	Impregnation
Contains trass	●	●	●	Not applicable
Grain sizes	1,2 mm	0,5 mm	0,5 mm	Not applicable
Class	M10	C2TE	CG2A	Not applicable
APPLICATION:				
Indoor	●	●	●	●
Outdoor	●	●	●	●
Frost resistance	●	●	●	●

● YES ● NO

## POZMUR-KL NANO 130

Masonry mortar with trass for clinker elements



Mortar with nanotechnology for full-joint laying of bricks and clinker obverse moulders without additional pointing. For application inside and outside during construction of walls and facades of clinker elements. It effectively decreases a risk of efflorescence.

Colour table: page 138

- compressive strength: M10
- flexural strength:  $\geq 2,5$  MPa
- joint strength:  $\geq 0,15$  N/mm<sup>2</sup>
- grain sizes: 0-2 mm
- consumption: wall thickness 25 cm - 110 kg/m<sup>2</sup>



**Bag:**

White, graphite, sand, light grey, grey, brick-red, brown, black:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

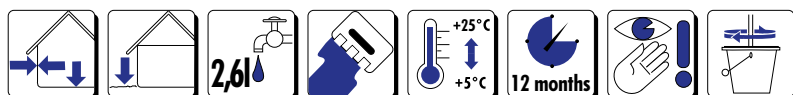
## KLINKIER MULTI 112

Elastic adhesive for clinker tiles, C2TE class



Intended for fast adhesion of all tiles (clinker, terracotta gres tiles). Perfect for terraces, balconies, bathrooms and concrete with underfloor heating, liquid foils, sealing mortars and old facings. Thixotropic waterproof and frost-resistant.

- adhesive thickness: up to 5 mm
- foot traffic: after 24 hours
- grouting: after 48 hours
- adjustability time: up to 30 min.
- consumption: avg ca. 4,5 kg/m<sup>2</sup>
- coverage: ca. 2,1 m<sup>2</sup>/bucket



**Bucket:**

- 10 kg
- 55 pcs per pallet
- pallet weight: 740 kg

## CLINKER GROUT 701

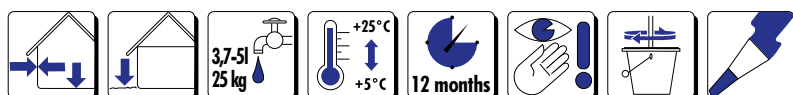
Specialist mortar with trass for pointing clinker covering, 5-20 mm



Mortar for pointing tiles, bricks, clinker moulders, wall and floor ceramic, glass and concrete tiles. Trass content in its composition reduces the risk of salt efflorescence. It makes it possible to obtain joints with high stability of colour and bond strength. For internal and external application.

Colour table: page 138

- foot traffic: after 24 hours
- compressive strength:  $\geq 25,5$  MPa
- classification according to PN-EN: 13888:2010:CG2W
- consumption: for bricks 6,5x25 cm and joint 10 mm - ca. 3,2 kg/m<sup>2</sup>



**Bag:**

White, graphite, sand, light grey, grey, brick-red, brown, black:

- 10 kg
- 96 pcs per pallet
- pallet weight: 990 kg

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**FRONTA 1001**

*Impregnant for clinker*



For maintenance and protection of natural stone, tiles, clinker bricks and products of building ceramics. It seals porous structures and hinders penetration of dirt, without causing gloss or creating a surface layer. Ensures rustic appearance of substrates. Waterproof and freezeproof, hydrophobic and vapour permeable.

- drying up time: depending of ambient temperature
- density: 0,08 g/cm<sup>3</sup>
- colour: colourless after drying
- consumption: ca. 0,08-0,12 l/m<sup>2</sup> depending on absor-  
bency and structure of groundwork
- coverage: up to 12,5 m<sup>2</sup>/package



Metal container:




- 1 l
- 12 pcs per carton
- carton weight: 14 kg

# Primers

---



Table 16. Properties of priming agents

									
	EXPERT 5	EXPERT 6	GRUNTOLIT-W 301	GRUNTOLIT-SG 302	GRUNTOLIT-SO 305	GRUNT POD GLADZIE 306	GRUNTOBET 310	GRUNTOLIT-K 311	GRUNTOLIT-SK 313
Possibility of diluting	●	●	●	●	●	●	●	●	●
Colour after drying	Colourless	Colourless	Colourless	Colourless	Colourless	Blue	Red	Yellow	Green
Possibility of further works	4 h	12 h	24 h	24 h	24 h	24 h	24 h	12 h	24 h
<b>To be applied under:</b>									
Paints	●	●	●	●●	●●	●	●	●	●
Tile adhesives	●●	●●	●	●	●	●	●	●	●
Hydroinsulation systems	●●	●	●	●●	●	●	●	●	●
Cement screeds	●●	●	●	●●	●	●	●	●	●
Anhydrite screeds	●	●	●	●	●	●	●	●●	●●
Finish surfaces	●	●	●	●●	●	●●	●	●	●
Gypsum plasters	●	●	●	●	●	●	●●	●●	●●
Cement-lime plasters	●	●	●	●	●	●	●●	●	●

●● Best solutions ● Allowed solutions ● Not recommended solutions

**GRUNTOLIT-W 301***Aqueous priming agent*

Universal primer intended for levelling absorptivity, stabilisation and reinforcement of dusty substrates. It increases bond strength and facilitates application of paint coats, building mortars and tile adhesives.

- drying time: ca. 2-4 hours
- possibility of further works: after ca. 24 hours
- colour: colourless after drying
- consumption: ca. 0,05-0,30 l/m<sup>2</sup> depending on absorbency and structure of groundwork
- coverage: up to 100 m<sup>2</sup>/5 l

**Plastic container:**

- 1 l
- 12 pcs per carton
- carton weight: 13 kg

- 5 l
- 120 pcs per pallet
- pallet weight: 642 kg

- 20 l
- 30 pcs per pallet
- pallet weight: 648 kg

**GRUNTOLIT-SG 302***Deeply penetrating priming agent*

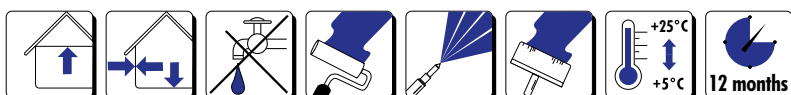
Deeply penetrating agent for priming absorptive substrates. Mainly used before interior or exterior paints and before creating finishes (gypsum, lime-cement, polymer), ceramic covering and wallpapers.

- drying time: ca. 2-4 hours
- possibility of further works: ca. 24 hours
- colour: colourless after drying
- consumption: ca. 0,05-0,30 l/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/5 l

**Plastic container:**

- 1 l
- 12 pcs per carton
- carton weight: 13 kg

- 5 l
- 120 pcs per pallet
- pallet weight: 642 kg

**GRUNTOLIT-SO 305***Specialist priming agent under silicone and silicate paints*

Priming agent, based on silicone resin for priming beds before painting with silicone paints (SO), silicate paints (SA) and silicate-silicone paints (SISI). It reduces and levels absorptivity, reinforces substrates, facilitates painting and increases bond strength of paint to substrates.

- drying time: ca. 2-4 hours
- possibility of further works: after ca. 24 hours
- colour: colourless after drying
- consumption: ca. 0,05-0,30 l/m<sup>2</sup>
- coverage: up to 100 m<sup>2</sup>/5 l

**Plastic container:**

- 5 l
- 120 pcs per pallet
- pallet weight: 642 kg



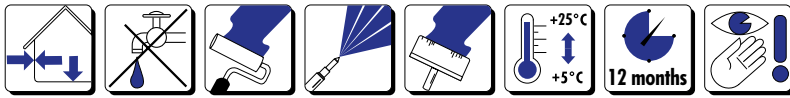
**PRIMER UNDER FINISH COATS 306**

*Priming agent with quartz aggregate*



Priming agent under gypsum, dispersion, limestone or cement-limestone finish coats. It makes application of finish coats easier and improves bond strength to substrate, reduces and levels its absorptivity, without decreasing vapour permeability. Resistant to alkaline compounds.

- drying time: ca. 4 hours
- possibility of further works: after ca. 24 hours
- colour: after drying BLUE
- consumption: ca. 0,20-0,30 kg/m<sup>2</sup>
- coverage: up to 75 m<sup>2</sup>/15 kg



**Bucket:**

- 15 kg
- 33 pcs per pallet
- pallet weight: 542 kg

### GRUNTOBET 310

Primer under gypsum, cement-lime plasters



Primer intended for final preparation of concrete, reinforced-concrete and mineral substrates before application of gypsum, cement-lime plasters. It contains quartz aggregate increasing bond strength of layers applied. It improves bond strength of plasters, facilitates their application as well as levels and reduces absorptivity of beds.

- drying time: ca. 12 hours
- possibility of further works: after ca. 24 hours
- colour: after drying RED
- consumption: ca. 0,25-0,35 kg/m<sup>2</sup>
- coverage: up to 80 m<sup>2</sup>/20 kg



Bucket:

- 20 kg
- 24 pcs per pallet
- pallet weight: 522 kg

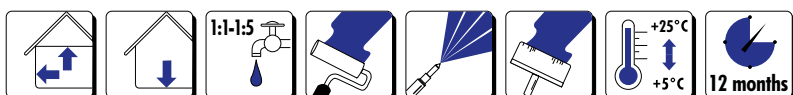
### GRUNTOLIT-K 311

Concentrated primer under plasters, gypsum adhesives and anhydrite screeds



Highly concentrated priming agent for final preparation of substrates before application of plasters, gypsum adhesives and anhydrite screeds. Used for priming all extensively absorptive and weakened substrates.

- drying time: ca. 2-4 hours
- possibility of further works: after ca. 12 hours
- colour: after drying YELLOW
- dilution: from 1:1 to 1:5
- coverage: from 0,08 kg/m<sup>2</sup> in undiluted state
- coverage: up to 200 m<sup>2</sup>/15 kg



Bucket:

- 15 kg
- 24 pcs per pallet
- pallet weight: 402 kg

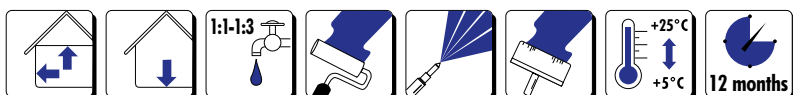
### GRUNTOLIT-SK 313

Concentrated primer under gypsum plaster and anhydrite screeds



Concentrated priming agent for final preparation of substrates before application of plasters, gypsum adhesives and anhydrite screeds. It reduces and levels absorptivity of substrates, facilitates plastering, screeds and application of gypsum adhesives.

- drying time: ca. 2-4 hours
- possibility of further works: after ca. 24 hours
- colour: after drying GREEN
- dilution: from 1:1 to 1:3
- consumption: from 0,10 kg/m<sup>2</sup> in undiluted state
- coverage: up to 150 m<sup>2</sup>/15 kg



Bucket:

- 15 kg
- 24 pcs per pallet
- pallet weight: 402 kg





## Machine-sprayed hard gypsum plaster 651T



reinforced with fibers



easy to work with



ensures a healthy microclimate







higher surface strength

# Waterproof insulation systems

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Table 17. Properties and application areas of waterproof insulation systems

				
	FOLBIT 800	FOLBIT EXTRA 805	BUDOSZCZEL-H 810	AQUASZCZEL 820
Insulation type	fluid foil	fluid foil	single-component, cement-polymer	double-component, cement-polymer
Temperature of use	+5 °C do +25 °C			
Drying time of 1 layer	approx. 3 hours	approx. 3 hours	approx. 4 hours	approx. 5 hours
Possibility of further works	min. 18 hours of drying	min. 18 hours of drying	min. 3 hours of drying	min. 3 hours of drying
Min. number of applied layers	2			
Minimal layer thickness	1,0 mm	1,0 mm	2,0 mm	2,0 mm
Resistance to water under pressure	≥ 0,5 MPa	≥ 0,5 MPa	≥ 0,5 MPa	≥ 0,5 MPa
Frost resistance	NO	YES	YES	YES
Adhesive strength to concrete	≥ 0,5 MPa	≥ 0,5 MPa	≥ 1,0 MPa	≥ 1,5 MPa
Scratch bridging	up to 2,5 mm	up to 0,75 mm	up to 0,75 mm	up to 1,5 mm
<b>Application areas</b>				
Kitchens, bathrooms	●●	●●	●	●
Sealing of old ceramic linings	●	●	●●	●
Industrial kitchens and laundries, showers without shower tubs.	●	●	●●	●
Industrial premises	●	●	●	●●
Balconies	●	●●	●●	●●
Terraces	●	●●	●	●●
Swimming pools	●	●	●	●●
<b>Underground parts of buildings</b>				
a) horizontal insulation systems	●	●	●	●●
b) vertical insulation systems				
- light	●	●	●	●●
- medium	●	●	●	●●
- heavy	●	●	●	●●

●● Best solution ● Allowed solutions ● Not recommended solutions

**FOLBIT 800**

Internal liquid foil



Single-component, ready for use liquid compound. For internal use with waterproof insulation systems on substrates such as concrete, cement-lime plasters, gypsum and screed. After having dried up, it forms a seamless, durable and elastic insulation coating.

- watertightness with pressure of 0,5 MPa
- laying floor tiles: after 18-24 hours
- colour: blue
- consumption: ca. 1,40 kg/m<sup>2</sup> / 1 mm layer thickness
- coverage: ca. 5 m<sup>2</sup>/1 mm / 7 kg

**Bucket:**

- 4 kg
- 100 pcs per pallet
- pallet weight: 444 kg
- 7 kg
- 80 pcs per pallet
- pallet weight: 605 kg
- 21 kg
- 33 pcs per pallet
- pallet weight: 740 kg

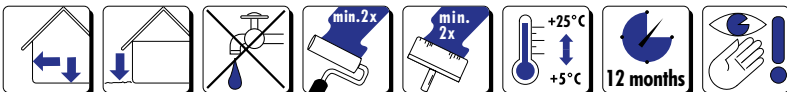
**FOLBIT EXTRA 805**

External liquid foil



Single-component, ready for use liquid compound. For use inside and outside with water-proof insulation systems on difficult substrates such as terraces and balconies etc. After having dried up, it forms a highly water tight coating with strong adhesion to the substrate.

- watertightness with pressure: 0,5 MPa
- laying floor tiles: after 18-24 hours
- colour: green
- consumption: ca. 1,40 kg/m<sup>2</sup> / 1 mm layer thickness
- coverage: ca. 5 m<sup>2</sup>/1 mm / 7 kg

**Bucket:**

- 4 kg
- 100 pcs per pallet
- pallet weight: 444 kg
- 7 kg
- 80 pcs per pallet
- pallet weight: 605 kg
- 21 kg
- 33 pcs per pallet
- pallet weight: 740 kg

**BUDOSZCZEL-H 810**

Single-component waterproof mortar for balconies



Mortar for waterproof insulation systems in rooms with increased humidity. For sealing the surface of containers and swimming pools, insulating external walls and protecting terraces and balconies. It bridges scratches up to 0,75 mm.

- minimum number of layers: 2
- layer thickness: 2-5 mm
- drying time: ca. 4 hours
- suitability-for-use time after mixing: 60 min.
- consumption: ca. 1,5 - 1,7 kg/m<sup>2</sup> for thickness of 1 mm
- coverage: ca. 16 m<sup>2</sup>/1 mm layer thickness

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**AQUASZCZEL 820**

Double-component, cement-polymer waterproof mortar



Intended for underground waterproof insulation systems in areas which have contact with ground water and water basins, swimming pools, terraces and balconies. Used for insulating agricultural buildings: animal waste tanks, cesspools etc. It bridges scratches up to 1.5 mm.

- minimum number of layers: 2
- layer thickness: 2-4 mm
- drying time: ca. 4 hours
- suitability-for-use time: up to 60 min.
- consumption: ca. 1,5-1,7 kg/m<sup>2</sup>/1 mm
- coverage: ca. 16 m<sup>2</sup>/1 mm layer thickness

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**Bucket:**

- 10,8 kg
- 42 pcs per pallet
- pallet weight: 499 kg



**SEALING TAPE**

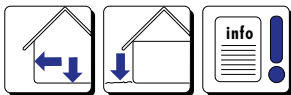


Used for protection against penetration of humidity and water where two surfaces overlap. Intended as a sealant for bathrooms, shower cubicles, terraces, balconies and swimming pools. For internal and external application.

- features: high insulation power and elasticity
- composition: polyester fabric TPE
- width of sealing: 7 cm
- dimensions: 10 or 50 m/12 cm

**Length:**

- 50 m
- 10 m



**WALL CUFF**



Used for protection against penetration of humidity and sealing of pipe and installation passageways. For application inside and outside rooms.

- features: high insulation power and elasticity
- composition: polyester fabric TPE
- dimensions: 120 x 120 mm

**Packaging:**

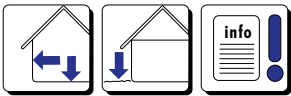
- 25 pcs
- 2 pcs



**FLOOR CUFF**

Used for protection against penetration of humidity and sealing of pipe and installation passageways. For internal and external application.

- features: high insulation power and elasticity
- composition: polyester fabric TPE
- dimensions: 350 x 350 mm

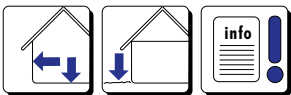
**Packaging:**

- 10 pcs
- 1 pcs

**INTERNAL AND EXTERNAL CORNER**

Used for protection against penetration of humidity and water where two surfaces overlap in corners. Intended as a sealant in bathrooms, shower cubicles, terraces, balconies and swimming pools. For internal and external application.

- features: high insulation power and elasticity
- composition: polyester fabric TPE
- width of sealing: 7 cm



- Internal corner - 1 pcs
- External corner - 1 pcs

Table 18. Application scope of bituminous materials

Stosowanie	DYSPERBITUM 830	STYRBITUM 832
Renovation of roofing systems	●	●
Bituminous primer	●	●
Styrofoam adhesive	●	●
XPS adhesive	●	●
Horizontal insulation systems	●	●
Light vertical insulation systems	●	●
Heavy vertical insulation systems	●	●

● Allowed solutions ● Not recommended solutions

## DYSPERBITUM 830

Dispersion bitumen-rubber mass

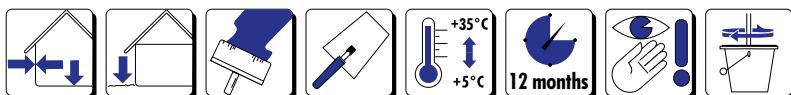


Grout intended for applying Styrofoam and extruded panels and as hydro-insulation for foundations, basements and terraces. Primarily intended for renovation and maintenance of roofing. As sub-floor hydraulic insulation of terraces, balconies, basements, garages, irregularly shaped surfaces, as well as for creating permanently elastic hydro-insulation, water-tight layers of underground building parts (foundation slabs, foundations, etc.).

- colour: black
- single layer thickness: 1 mm
- number of mass layer: 2-4
- drying time: ca. 6 hours/layer
- consumption: 0,8-1,2 kg/m<sup>2</sup>

Bucket:

- 10 kg
- 55 pcs per pallet
- pallet weight: 580 kg



- 20 kg
- 33 pcs per pallet
- pallet weight: 690 kg

## STYRBITUM 832

Dispersion adhesive mass

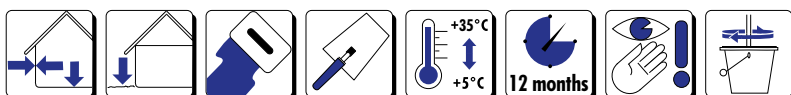


Intended for fixing styrofoam panels and panels of extruded styrofoam. For making under-floor hydro-insulations of terraces, balconies, basements and garages. Used for vertical and horizontal underground insulations of parts of buildings.

- colour: black
- single layer thickness: up to 2 mm
- number of mass layer: 2-4
- drying time - hydro-insulation: 3-5 days
- drying time - adhesive: up to 14 days
- consumption: 0,6-1,2 kg/m<sup>2</sup>

Bucket:

- 18 kg
- 33 pcs per pallet
- pallet weight: 624 kg








# Gypsum products and finishes

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Table 19. Properties of smooth surface finish products

							
	GYPSUM FINISH 601	GYPSUM FINISH 604	GYPSUM 602	GIPSEL EXTRA 600	GIPSEL PLUS 603	LIME FINISH 660	CEMENT-LIME FINISH 662
Base	gypsum	gypsum	cement and dolomite	resin	polymers	white	cement and lime
Colour	white	snow white	white	snow white	snow white	white	grey
Thickness layers	up to 3 mm	up to 3 mm	up to 5 mm	up to 2 mm	up to 2 mm	up to 3 mm	up to 5 mm
Ready-made product	●	●	●	●	●	●	●
Water resistance	●	●	●	●	●	●	●
Frost resistance	●	●	●	●	●	●	●
Dry processing (grinding)	●	●	●	●	●	●	●
Wet processing	●	●	●	●	●	●	●
Mechanical application	●	●	●	●	●	●	●
<b>Application area</b>							
Wet premises	●	●	●	●	●	●	●
Facades	●	●	●	●	●	●	●
Gypsum plasters	●	●	●	●	●	●	●
Cement-lime plasters	●	●	●	●	●	●	●
Lime plasters	●	●	●	●	●	●	●
Drywalls	●	●	●	●	●	●	●

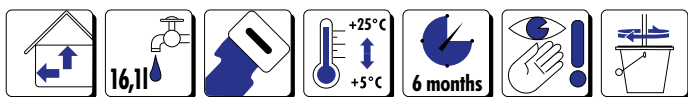
● is present ● is not present

### MANUAL-APPLICATION GYPSUM PLASTER 650



Intended for manual application of gypsum and smooth indoor plasters in rooms with a humidity of over 70%. Also intended for the manual application of plaster mortars under paints, or quality plasters on walls and ceilings made of autoclaved, aerated concrete, ceramic elements, lime-sandstone, concrete elements, etc. Indoor use.

- ultimate compressive strength:  $\geq 2,0 \text{ N/mm}^2$
- working time: up to 120 minutes
- grain sizes: 0-1,2 mm
- consumption: ca.  $8,5 \text{ kg/m}^2$  per 1 cm of mortar layer thickness
- coverage: up to  $2,5 \text{ m}^2$  for thickness of 1 cm/bag



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

### MACHINE-SPRAYED GYPSUM PLASTER 651



Intended for machine-spray application of gypsum and smooth indoor plasters in rooms with a humidity of less than 70%. Suitable for mechanic and manual application of gypsum plaster grouts, under paint coats or quality plasters on walls and ceilings made of autoclaved aerated concrete, ceramic or lime-sandstone, concrete elements, etc. Indoor use.

- ultimate compressive strength:  $\geq 2,0 \text{ N/mm}^2$
- working time: up to 180 minutes
- grain sizes: 0-1,2 mm
- consumption: ca.  $10 \text{ kg/m}^2$  per 1 cm of mortar layer thickness
- coverage: up to  $3,0 \text{ m}^2$  for thickness of 1 cm/bag



**Bag:**

- 30 kg
- 40 pcs per pallet
- pallet weight: 1230 kg

### MACHINE-SPRAYED light GYPSUM PLASTER 651L



Machine-applied mortar for gypsum and smooth, light indoor plasters in rooms with a humidity of less than 70%. Intended for mechanic or manual application of gypsum plaster grouts under quality paints or plasters on walls and ceilings made of YTONG, HEBEL, etc. blocks, as well as ceramic, lime-sandstone, concrete surfaces. Indoor use.

- ultimate compressive strength:  $\geq 2,0 \text{ N/mm}^2$
- working time: up to 180 minutes
- grain sizes: 0-1,2 mm
- consumption: ca.  $8 \text{ kg/m}^2$  per 1 cm of mortar layer thickness
- coverage: up to  $3,75 \text{ m}^2$  for thickness of 1 cm/bag



**Bag:**

- 30 kg
- 40 pcs per pallet
- pallet weight: 1230 kg

## MACHINE-SPRAYED HARD GYPSUM PLASTER 651T

Machine-sprayed gypsum plaster with increased surface hardness



Intended for machine-spray application of gypsum, smooth, indoor plasters with increased surface hardness in rooms, in which air humidity does not exceed 70%. Suitable for mechanic or manual application of gypsum plaster grouts under paint coats or quality plasters on walls and ceilings made of autoclaved aerated concrete, ceramic or lime-sandstone, concrete elements.

- ultimate compressive strength:  $\geq 6,0 \text{ N/mm}^2$
- working time: up to 180 minutes
- grain sizes: 0-1,2 mm
- consumption: ca.  $10 \text{ kg/m}^2$  per 1 cm of mortar layer thickness
- coverage: up to  $3,0 \text{ m}^2$  for thickness of 1 cm/bag



Bag:

- 30 kg
- 40 pcs per pallet
- pallet weight: 1230 kg

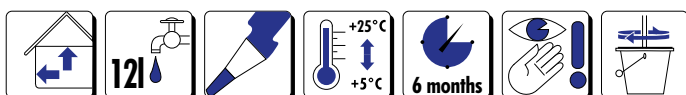
## CONSTRUCTION GYPSUM PLASTER 610

Quick-setting gypsum binder



Environmentally friendly, universal gypsum binding agent with short setting time. Intended for filling groundwork unevenness, eliminating cavities and cracks, for mounting electrical installations, plaster strips, etc., as well as for jointing gypsum elements. Indoor use.

- ultimate compressive strength:  $\geq 14 \text{ N/mm}^2$
- surface adhesion:  $\geq 0,5 \text{ MPa}$
- working time: up to 8 minutes
- consumption: depending on the application method



Bag:

- 20 kg
- 54 pcs per pallet
- pallet weight: 1110 kg

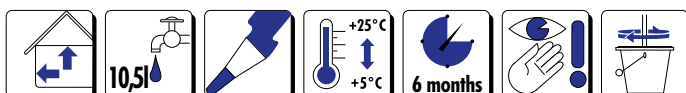
## GYPSUM ADHESIVE 680

Gypsum adhesive mortar



Adhesive intended for mounting plasterboards to various surfaces, as well as for gluing other gypsum elements. For mounting other gypsum elements and rigid boards constructed out of insulation materials to internal walls. For gypsum groundwork, brick and ceramic CMU surfaces, lime-sandstone block surfaces, elements constructed out of common and autoclaved aerated concrete. Indoor use.

- ultimate compressive strength:  $\geq 6 \text{ N/mm}^2$
- concrete surface adhesion:  $\geq 0,06 \text{ MPa}$
- working time: up to 10 minutes
- consumption: ca.  $5,0 \text{ kg/m}^2$  for plasterboards
- coverage: up to  $4 \text{ m}^2$  plasterboards



Bag:

- 20 kg
- 54 pcs per pallet
- pallet weight: 1110 kg

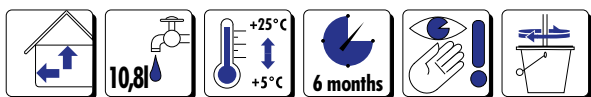
### GYPSUM 691

Mortar for jointing plasterboards



Gypsum mortar for jointing plasterboards without reinforcing tape. Intended for jointing plasterboards with properly shaped edges without the use of reinforcing tape (reinforce non-factory, cut edges). Can be also used for filling cavities and levelling out mineral groundworks on indoor surfaces.

- ultimate compressive strength:  $\geq 3,0 \text{ N/mm}^2$
- concrete surface adhesion:  $\geq 0,25 \text{ MPa}$
- working time: up to 60 minutes
- consumption: ca.  $1,0 \text{ kg/m}^2$  per 1 mm of layer thickness
- thickness layer: 3 mm
- coverage: up to  $20,0 \text{ m}^2$  for thickness of 1 mm/bag



**Bucket:**

- 5 kg
- 200 pcs per pallet
- pallet weight: 1030 kg

**Bag:**

- 20 kg
- 54 pcs per pallet
- pallet weight: 1110 kg

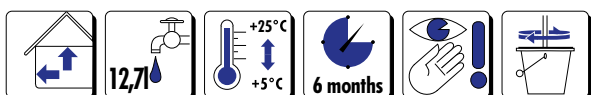
### GYPSUM PUTTY 690

Universal gypsum putty, 1-10 mm



Intended for repairing cavities, cracks, mounting electrical installations, for carrying out stucco works etc., and for jointing plasterboards using reinforcing tape. Can be used for various indoor mineral groundworks (concrete, cement-lime, ceramic, gypsum, etc.).

- ultimate compressive strength:  $\geq 2,5 \text{ N/mm}^2$
- concrete surface adhesion:  $\geq 0,25 \text{ MPa}$
- working time: up to 60 minutes
- consumption: ca.  $1,0 \text{ kg/m}^2$  per 1 mm of layer thickness/bag
- coverage: up to  $20,0 \text{ m}^2$  for thickness of 1 mm



**Bag:**

- 20 kg
- 54 pcs per pallet
- pallet weight: 1110 kg

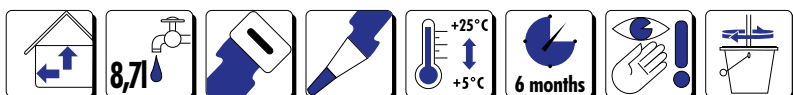
### GYPSUM FINISHING COAT 601

White gypsum finishing coat, layer up to 3 mm



Suitable for executing perfectly smooth layers under paints or quality plasters on walls and ceilings with cement-lime plasters, gypsum plasters, etc., or on plasterboard surfaces. For filling cavities and cracks. Indoor use.

- ultimate compressive strength:  $\geq 2,0 \text{ N/mm}^2$
- surface adhesion:  $\geq 0,1 \text{ MPa}$
- bonding onset:  $\geq 50$  minutes
- consumption: ca.  $0,8 \text{ kg/m}^2$  per 1 mm of layer thickness/bag
- coverage: up to  $25,0 \text{ m}^2$  for thickness of 1 mm



**Bag:**

- 20 kg
- 54 pcs per pallet
- pallet weight: 1110 kg

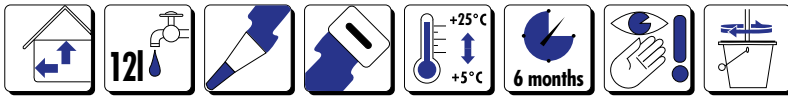
## SUPER WHITE FINISHING COAT 604

Ultra white gypsum finishing coat, layer up to 3 mm



Suitable for creating perfectly smooth layers under paints or quality plasters on walls and ceilings with cement-lime plasters, gypsum plasters, etc., or on plasterboard surfaces. For filling cavities and cracks in plasters. Indoor use.

- ultimate compressive strength:  $\geq 2,0$  N/mm<sup>2</sup>
- surface adhesion:  $\geq 0,1$  MPa
- suitability-for-use time: > 50 minutes
- consumption: ca. 0,8 kg/m<sup>2</sup> per 1 mm of layer thickness/bag
- coverage: up to 25,0 m<sup>2</sup> for thickness of 1 mm



Bag:

- 20 kg
- 54 pcs per pallet
- pallet weight: 1110 kg

## GIPSEL EXTRA 600

Ready-to-use finishing coat, layer up to 2 mm



Ready-to-use compound for creating internal finishes, as well as in places with increased usable, thixotropic humidity. Appropriate to make ideally smooth layers under paints or noble plasters on walls and ceilings with cement-lime plasters, gypsum plasters or made of plasterboards. Intended for manual and machine application.

- bond strength to concrete substrate:  $\geq 0,65$  MPa
- bond strength to wooden substrate:  $\geq 0,25$  MPa
- bond strength to steel:  $\geq 0,15$  MPa
- coverage: ca. 1,9 kg/m<sup>2</sup> for 1 mm of the layer thickness
- coverage: up to 20,0 m<sup>2</sup> / bag



Bucket:

- 20 kg
- 33 pcs per pallet
- pallet weight: 701 kg

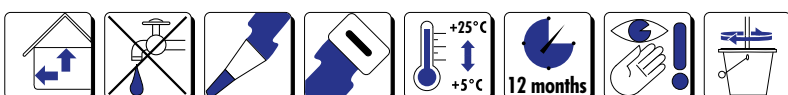
## GIPSEL PLUS 603

Ready-to-use gypsum finishing coat, layer up to 2 mm



Ready-to-use, acrylic polymer based product which is intended for creating finishing coats in humid rooms. Suitable for executing perfectly smooth layers under paints or quality plasters on walls and ceilings with cement-lime plasters, gypsum plasters, etc., or on plasterboard surfaces. Extra white. Indoor use.

- concrete surface adhesion:  $\geq 0,50$  MPa
- wooden surface adhesion:  $\geq 0,15$  MPa
- consumption: ca. 1,9 kg/m<sup>2</sup> per 1 mm of layer thickness/bag
- coverage: up to 20,0 m<sup>2</sup> / bag



Bucket:

- 1,5 kg
- 224 pcs per pallet
- pallet weight: 380 kg

Bucket:

- 20 kg
- 33 pcs per pallet
- pallet weight: 701 kg

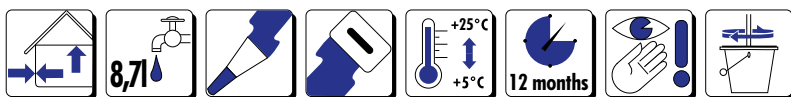
### POZGLADŹ 602

White cement-dolomite finishing coat, layer up to 5 mm



Intended for manual execution of indoor and outdoor finishing coats on walls and ceilings. Suitable for executing perfectly smooth layers under paints or quality plasters on walls and ceilings with cement-lime plasters, gypsum plasters, etc., or on plasterboard surfaces. Can be used in rooms with air humidity above 70%.

- concrete surface adhesion:  $\geq 0,25$  MPa
- suitability-for-use time: up to 120 minutes
- consumption: ca.  $1,25$  kg/m<sup>2</sup> per 1 mm of layer thickness
- coverage: up to 20,0 m<sup>2</sup> for thickness of 1 mm



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

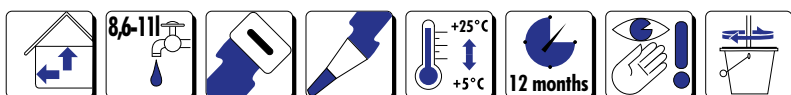
### LIME FINISH 660

White, ecological lime finish, layer up to 3 mm



Ecological, traditional finish for manual application of lime finishing coats inside rooms. Diffusively open. Appropriate for creating smooth layers under paints or noble plasters on walls and ceilings with priming cement-lime plasters or on concrete beds. For rubbing wet, without abrading.

- bond strength to concrete substrate:  $\geq 0,2$  MPa
- suitability-for-use time: up to 180 minutes
- coverage: ca.  $1,25$  kg/m<sup>2</sup> for 1 mm of the layer thickness
- coverage: up to 20,0 m<sup>2</sup> for thickness of 1 mm



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

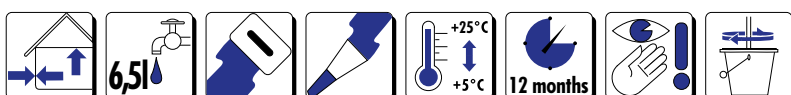
### LIME-CEMENT FINISH 662

Freezeproof finish for cement-lime plasters, layer up to 5 mm



Finish for manual application of lime-cement finishing coats on walls and ceilings inside and outside rooms. Appropriate to be used on concrete, cement substrates and facades. For rubbing wet, without abrading. Waterproof and freezeproof.

- bond strength to concrete substrate:  $\geq 0,2$  MPa
- grain size: 0,5 mm
- suitability-for-use time: up to 180 minutes
- coverage: ca.  $1,25$  kg/m<sup>2</sup> for 1 mm of the layer thickness
- coverage: up to 20,0 m<sup>2</sup> for thickness of 1 mm



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg



[www.kreisel.pl](http://www.kreisel.pl)

## Ready-to-use finishing coat GIPSEL EXTRA 600

- for wall and ceiling smoothing works
- to fill defects, scratches and cracks in plasters
- appropriate for wet (dustless) processing
- on concretes, cement plasters, cement-lime plasters, lime or gypsum plasters, drywalls
- on wooden and metal substrates
- for indoor application
- an ideal priming agent under the following paints
- acrylic
- extra white
- smooth




# Concrete repair system

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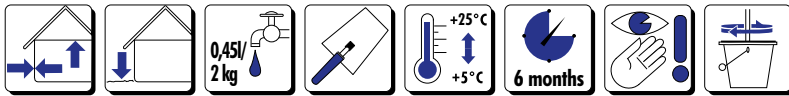
Table 20. Properties of mortars intended for repairs in concrete

	 <b>MORTAR 451</b>	 <b>MORTAR 456</b>	 <b>MORTAR 460</b>
Function	Contact and anticorrosive mortar	The main reprofiling layer	The reprofiling, finish layer
Layer thickness [mm]	< 3	5-50	1-10
Workability period after water addition (min.)	< 60	< 60	< 60
Water volume per 25 kg of mixture (l)	5,7	4,0	5,5
Medium coverage per 1 sq.m/1 mm in kgs	1,6	1,9	1,4
Compressive strength [MPa]	≥ 30,0	≥ 25,0	≥ 25,0
Bending strength [MPa]	≥ 5,0	≥ 5,0	≥ 5,0
Strength of adhesion to concrete [MPa]	≥ 1,5	≥ 0,8	≥ 1,5
Shrinkage after 28 days of hardening [%]	< 0,14	< 0,12	< 0,16
Capillary absorption [kg/sq.m. min. 0,5]	≤ 0,5	≤ 0,5	≤ 0,5
Granulation	up to 0,5 mm	up to 4,0 mm	up to 0,5 mm
Classification EN 1504-3	R2		

**RAPID SET ASSEMBLY MORTAR 425***Fast-binding cement mortar*

Mortar intended for quick mounting of metal elements (anchors, supports) and other elements in the groundwork, for repairing cavities and sealing local soaking spots in walls, concrete pipes, etc.

- grain sizes: 0,5 mm
- working time: up to 10 minutes
- compressive strength after 3 hours:  $\geq 10$  MPa
- resistance to bending after 28 days:  $\geq 25$  MPa
- consumption: avg ca. 1,6 kg/m<sup>2</sup>
- coverage: ca. 15,5 m<sup>2</sup>/bag

**Bucket:**

- 2 kg/168 pcs per pallet
- pallet weight: 366 kg

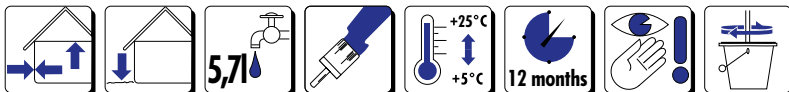
**Bag:**

- 25 kg/48 pcs per pallet
- pallet weight: 1230 kg

**CEMENT MORTAR 451***Contact and anti-corrosive mortar in the concrete repair system*

Mortar 451 is intended for executing contact layers (adhesive bridge) and to provide anti-corrosive protection in the concrete repair system. The system can be used to repair damaged reinforced concrete affected by mechanic or corrosive factors. The system is suitable for repairing repairing elements, such as: balconies, terraces, supports, piles, lintels, etc. It is a binding layer between the repaired concrete or reinforced concrete element and Mortar 456 or Plaster 460.

- grain sizes: 0,5 mm
- compressive strength:  $\geq 30$  MPa
- consumption: ca. 1,6 kg/m<sup>2</sup>/1 mm
- coverage: ca. 15,5 m<sup>2</sup>/bag

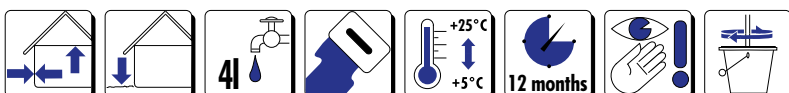
**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**REPAIR MORTAR 456***Repair mortar in the concrete repair system, 5-50 mm*

Mortar 456 is intended for executing the primary, re-profiling repair layer in the concrete repair system. The system can be used to repair, damaged reinforced concrete affected by mechanic or corrosive factors. The system is suitable for repairing such elements as: balconies, terraces, supports, piles, lintels, etc. it may be also used to execute local repairs or fill minor cavities in other concrete surfaces (e.g. ASR).

- grain sizes: up to 4,0 mm
- compressive strength:  $\geq 25$  MPa
- consumption: ca. 1,9 kg/m<sup>2</sup>/1 mm
- coverage: ca. 1,3 m<sup>2</sup>/bag

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## PLASTER 460

Repair finishing coat in the concrete repair system, 1-10 mm



Plaster 460 is intended for executing final finishing layers in the concrete repair system. The system can be used to repair concrete, damaged reinforced concrete affected by mechanic or corrosive factors. The system is suitable for repairing such elements as: balconies, terraces, supports, piles, lintels, etc. it may be also used to execute local repairs or fill minor cavities in other concrete surfaces (e.g. ASR).

- grain sizes: up to 0,5 mm
- compressive strength:  $\geq 25$  MPa
- consumption: avg ca. 1,4 kg/m<sup>2</sup>/1 mm
- coverage: ca. 17,8 m<sup>2</sup>/bag



### Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

# Renovation system

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Table 21. Properties of products for renovation works







						
	RENOVATION RENDERING COAT 910	RENOVATION SUBSTRATE PLASTER 920	RENOVATION PLASTER 921	RENOVATION PLASTER 922	RENOVATION PLASTER 923	RENOVATION FINISH 930
Layer thickness	4-5 mm	10-20 mm	10-25 mm	10-20 mm	10-20 mm	up to 3 mm
Compressive strength	CS IV	CS III	CS II	CS II	CS I	CS I
Adhesion	> 0,5 MPa	≥ 0,2 MPa	> 0,2 MPa	≥ 0,2 MPa	> 0,1 MPa	> 0,2 MPa
Open porosity	-	> 45 %	> 40 %	> 40 %	-	-
Granulation	up to 2,0 mm	up to 2,0 mm	up to 2,0 mm	up to 0,5 mm	up to 0,5 mm	up to 0,5 mm

Table 22. Selection of products depending on the degree of salinity

Degree of salinity	Configuration of layers	Layer thickness	Technological break
<b>Low</b>	Obrzutka (rendering coat) 910	< 5,0 mm	3 days
	Renovation plaster 921 lub 922	10,0-20,0 mm	1 day/1 mm of layer
	Lime-cement surface finish (Gładz wapienno-cementowa) 930	< 5,0 mm	3 days to painting
<b>Medium</b>	Obrzutka (rendering coat) 910	< 5,0 mm	3 days
	Renovation plaster 920 or 921	10,0-20,0 mm	1 day/1 mm of layer
	Renovation plaster 921 or 922	10,0-20,0 mm	1 dzień/1 mm warstwy
	Lime-cement surface finish (Gładz wapienno-cementowa) 930	Surface finish < 3 mm	3 days to painting
<b>High</b>	Obrzutka (rendering coat) 910	< 5,0 mm	3 days
	Renovation substrate plaster 920	> 10,0 mm	1 day/1 mm of layer

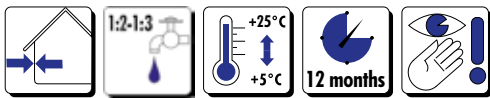
## INJECTION AND IMPREGNATION LIQUID 900

Liquid for impregnation of walls, pressure and gravitational injections



Specialist, organo-silicone agent for making a horizontal membrane (reconstruction of horizontal insulation) and for impregnation of porous materials. This agent is also suitable for priming beds before painting with silicate paints. Waterproof and freezeproof.

- pH: 12
- dilution with impregnation: 1:2-1:3
- coverage - impregnation: from 0,15 l/m<sup>2</sup>/1 cm
- coverage - injection: from 1,2l/rm of wall - 50 cm wide



Plastic container:

- 5 l
- 120 pcs per pallet
- pallet weight: 642 kg

## RENOVATION RENDERING COAT 910

Renovation rendering coat



For mechanical or manual making of renovation plaster rendering coat under substrate plasters. It does not limit vapour permeability. Product consistent with guidelines of the WTA. For application inside and outside buildings.

- grain size: up to 2,0 mm
- category: CS IV
- layer thickness: 4-5 mm
- consumption: avg ca. 6-8 kg/m<sup>2</sup>
- coverage: ca. 5 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## RENOVATION SUBSTRATE PLASTER 920

Wide-pore, lime-cement substrate plaster, 10-20 mm



Specialist, wide-pore plaster intended for mechanical or manual application of renovation substrate plasters in places burdened with salts in a medium or high degree. It does not limit vapour permeability. Hydrophobic, with high porosity. It accumulates crystallising salts. Consistent with guidelines of the WTA.

- grain sizes: up to 2,0 mm
- category: CS III
- open porosity: > 45 %
- consumption: avg ca. 12,0 kg/m<sup>2</sup>/1 cm
- coverage: ca. 2,5 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## RENOVATION PLASTER 921

Grey, with trass, lime-cement plaster, 10-25 mm



Hydrophobic plaster, with high porosity, intended for mechanical or manual application of renovation plasters in places burdened with salts in a low, medium and high degree. It does not limit vapour permeability. It accumulates crystallising salts. Consistent with guidelines of the WTA.

- grain size: up to 2,0 mm
- category: CS II
- open porosity: > 40 %
- consumption: avg ca. 11,0 kg/m<sup>2</sup>/1 cm
- coverage: ca. 2,7 m<sup>2</sup>/bag



Bag:

- 30 kg
- 40 pcs per pallet
- pallet weight: 1230 kg

## RENOVATION PLASTER 922

White, fine-grained lime-cement plaster, 10-20 mm



Plaster intended for mechanical or manual application of renovation plasters in places burdened with salts in a low, medium and high degree. It does not limit vapour permeability. Hydrophobic, with high porosity. It accumulates crystallising salts. Consistent with guidelines of the WTA.

- grain size: up to 0,5 mm
- category: CS II
- open porosity: > 40 %
- consumption: avg ca. 11,0 kg/m<sup>2</sup>/1 cm
- coverage: ca. 2,7 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## RENOVATION LIME PLASTER 923

White, lime plaster, 10-20 mm



Ecological lime plaster intended for mechanical or manual making of renovation plasters in places burdened with salts in a low and medium degree. It does not limit vapour permeability. Consistent with guidelines of the WTA.

- grain size: up to 0,5 mm
- category: CS I
- consumption: avg ca. 13,0 kg/m<sup>2</sup>/1 cm
- coverage: ca. 2,3 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## RENOVATION FINISH 930

Lime-cement finish, layer approx. 3 mm



Finish intended for smooth finishing of historic building renovation system. It does not limit vapour permeability, for rubbing wet. Intended for renovation of destroyed facades. Waterproof and freezeproof. Consistent with guidelines of the WTA.

- grain size: up to 0,5 mm
- category: CS I
- consumption: avg ca. 1,1 kg/m<sup>2</sup>/1 mm
- coverage: ca. 22,7 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

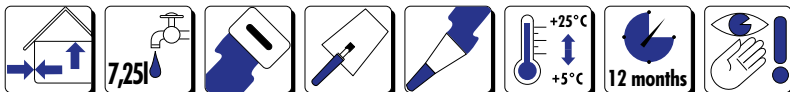
## RENOVATION MORTAR 940

Reinforced with fibre, fine-grained, lime-cement repair mortar, 2-15 mm



Reparation and levelling mortar for reconstruction and filling of holes, renovation of surface of facades. Intended for renovation of cornices, reparation of scratches and cracks of facades and for puttying surface of walls. Quick-setting, waterproof and freezeproof.

- grain size: up to 0,5 mm
- compressive strength: > 10 MPa
- consumption: avg ca. 7,7 kg/m<sup>2</sup>/0,5 cm
- coverage: ca. 3,7 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg



# Color Design...

## Paint for indoor applications - COLOR 014

Based on newly produced raw materials our high quality, emulsion acrylic paint is characterised by its high strength, high coverage, durability and resistance to abrasion. It is the perfect paint for cement, cement-lime and gypsum plasters, gypsum finish surfaces, other mineral substrates and drywall panels for internal applications. This paint is intended for manual application using traditional tools such as a roller and a brush. It can also be used for spray machine application. We offer a broad range of 704 colours with the choice of 2.5, 5.0 and 10 litre packages, all of which are available at commercial sale points with our paint and plaster mixers.

## Don't forget!

Any trace of grease, oil and other contaminations will compromise the coverage of the paint. The substrate must be cleaned with a detergent and all organic and fungal growth must be removed. The substrate must also be free from old paint layers to avoid delamination after application of the new paint layer. Make sure to protect areas that do not require painting and ensure that the substrate is primed with a suitable primer e.g. with GRUNTOLIT-SG 302 by KREISEL.











# Subfloors

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Table 23. Scope of subfloor applications I

								
	RENOGRUNT 410	RENOGRUNT 411	RENOGRUNT 412	RENOGRUNT 414	SCREED 420	SELF-LEVELLING UNDERLAYMENT 200	SELF-LEVELLING UNDERLAYMENT 201	SELF-LEVELLING SCREED 202
	Self-levelling screeds, liquidized							
Floor heating systems	●	●	●	●	●	●	●	●
Thermal insulation (floating subfloor)	●	●	●	●	●	●	●	●
Separating layer (foil)	●	●	●	●	●	●	●	●
Layer bonded to a substrate	●	●	●	●	●	●	●	●
Terraces and balconies	●	●	●	●	●	●	●	●
Bathrooms and kitchens	●	●	●	●	●	●	●	●

● Recommended solutions ● Not recommended solutions

Table 24. Scope of subfloor applications II

								
	GIGA CONCRETE 440	CONCRETE B-30 446	CONCRETE GROUT M-15 441	CONCRETE B-25 442	QUICK-SETTING SCREED 444	QUICK-SETTING CONCRETE B-30 445	LEVELLING MORTAR 428	STRONG CONCRETE B-20
	Screeds, subfloor					Levelling grouts		
Floor heating systems	●	●	●	●	●	●	●	●
Thermal insulation (floating subfloor)	●	●	●	●	●	●	●	●
Separating layer (foil)	●	●	●	●	●	●	●	●
Layer bonded to a substrate	●	●	●	●	●	●	●	●
Terraces and balconies	●	●	●	●	●	●	●	●
Bathrooms and kitchens	●	●	●	●	●	●	●	●

● Recommended solutions ● Not recommended solutions

## SELF-LEVELLING UNDERLAYMENT 200

Internal, thick-layer anhydrite screed, 20-60 mm



Anhydrite screed for manual and machine application. Used as a base under ceramic tiles, panels, parquets and floor lining. Used for floor heating system, on a distribution layer, thermal insulation and as a floating base.

- foot traffic: after 48 hours
- the possibility of applying further layers: after 14 days
- compressive strength:  $\geq 35 \text{ N/mm}^2$
- classification: CA-C35-F7
- consumption: ca.  $18,0 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,4 \text{ m}^2/\text{bag}/1 \text{ cm}$



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## SELF-LEVELLING UNDERLAYMENT 201

Internal, universal anhydrite screed, 3-60 mm



Anhydrite grout, used as a base under ceramic tiles, panels, parquets, floor lining. Intended for manual and machine application. Used for floor heating system, on a distribution layer, thermal insulation, as a floating base and bound with substrate.

- foot traffic: after 48 hours
- the possibility of performing further layers: after 14 days
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- classification: CA-C30-F6
- consumption: ca.  $18,0 \text{ kg/m}^2 / 1 \text{ cm}$
- coverage: ca.  $1,4 \text{ m}^2/\text{bag}/1 \text{ cm}$



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## SELF-LEVELLING SCREED 202

Internal, universal anhydrite screed, 2-20 mm



Thin-layer anhydrite grout for manual and machine application. A base under ceramic tiles, panels, floor lining, etc. Used for levelling anhydrite screeds, also on a floor heating system. For application inside rooms.

- foot traffic: po min. 48 godz.
- the possibility of applying further layers: after 7 days
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- classification: CA-C30-F5
- consumption: ca.  $18 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,4 \text{ m}^2/\text{bag}/1 \text{ cm}$



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**NEW**

## RENOGRUNT 410

Cement, thin-layer self-levelling screed, 2-20 mm



Screed intended for manual or mechanic application of levelling-finishing layers on indoor flooring bases. Ideal for levelling cement bases in heated flooring.

- foot traffic: after 5 hours
- the possibility of applying further layers: after 7 days
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- classification: CA-C30-F7
- consumption: ca.  $15 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,7 \text{ m}^2/\text{bag}/1 \text{ cm}$



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## RENOGRUNT 411

Cement, medium-layer, self-levelling screed, 5-35 mm



Screed intended for manual or mechanic application of levelling-finishing layers on indoor flooring bases. Ideal for levelling cement bases in heated flooring. It contains reinforcing fibers.

- foot traffic: after 6 hours
- the possibility of applying further layers: after 7 days
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- classification: CT-C30-F7
- consumption: ca.  $15 \text{ kg/m}^2 / 1 \text{ cm}$
- coverage: ca.  $1,7 \text{ m}^2/\text{bag}/1 \text{ cm}$

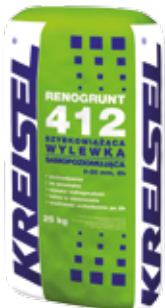


**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## RENOGRUNT 412

Cement, fast-binding, self-levelling screed, 2-20 mm



Screed intended for manual or mechanic application of levelling-finishing layers on indoor flooring bases. Fast drying times allow for the possibility of treading 2 hours after pouring the grout. Ideal for levelling cement bases in heated flooring. Quick binding allows for accelerated work pace.

- foot traffic: after 2 hours
- the possibility of applying further layers: after 24 hours
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- classification: CT-C30-F5
- consumption: ca.  $15 \text{ kg/m}^2 / 1 \text{ cm}$
- coverage: ca.  $1,7 \text{ m}^2/\text{bag}/1 \text{ cm}$



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**KREISEL®****RENOGRUNT 414**

Self-levelling concrete for wood substrates and under parquet, 2-30 mm



Specialist cement self-levelling screed, ideal for difficult beds such as floor heating, OSBs, chipboards and other wood-based. Due to high shear strength it is ideal under parquets, pasted floors. It contains reinforcing fibres.

- foot traffic: after 3 hours
- the possibility of applying further layers: after 3 days (ceramic tiles)
- compressive strength:  $\geq 25 \text{ N/mm}^2$
- classification: CT-C25-F6
- consumption: ca.  $15 \text{ kg/m}^2 / 1 \text{ cm}$
- coverage: ca.  $1,7 \text{ m}^2/\text{bag}/1 \text{ cm}$

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**SCREED 420**

Freezeproof external screed which spreads, 15-60 mm



Liquefied screed under ceramic tiles, panels, parquets and floor lining. Used for floor heating system, on a distribution layer, thermal insulation and as a floating base. On terraces and balconies.

- foot traffic: after 24 hours
- the possibility of applying further layers: after 14 days
- compressive strength:  $\geq 35 \text{ N/mm}^2$
- classification: CT-C35-F7
- consumption: ca.  $18 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,4 \text{ m}^2/\text{bag}/1 \text{ cm}$

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**GIGA CONCRETE 440**

High strength GIGA CONCRETE 40 MPa, freezeproof, from 25 mm



Specialist screed used for floor heating system, on a distribution layer, thermal insulation and as a floating subfloor. Intended for terraces and balconies and for fixing fence posts and making concrete elements. A base under ceramic tiles, panels, parquets.

- foot traffic: after 48 hours
- the possibility of applying further layers: after 28 days
- compressive strength:  $\geq 40 \text{ N/mm}^2$
- classification: CT-C40-F6
- consumption: ca.  $19,3 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,3 \text{ m}^2/\text{bag}/1 \text{ cm}$

**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## CONCRETE SCREED M-15 441

Cement, universal, freezeproof screed, 25-80 mm



A basic cement screed. Used on a distribution layer and as bound with substrate. A base under ceramic tiles, panels, parquets and for fixing fence posts.

- foot traffic: after 48 hours
- the possibility of applying further layers: after 28 days
- compressive strength:  $\geq 16 \text{ N/mm}^2$
- classification: CT-C16-F4
- consumption: ca.  $20 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,25 \text{ m}^2/\text{bag}/1 \text{ cm}$



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## CONCRETE B-25 442

Cement, universal, freezeproof screed, 10-80 mm



A universal screed. Used for floor heating system, on a distribution layer, thermal insulation and as a floating base. A base under ceramic tiles, panels, parquets as well as on terraces and balconies. For fixing fence posts and making concrete elements.

- foot traffic: after 48 hours
- the possibility of applying further layers: after 28 days
- compressive strength:  $\geq 25 \text{ N/mm}^2$
- classification: EN 1505-3:2005
- consumption: ca.  $20 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,25 \text{ m}^2/\text{bag}/1 \text{ cm}$



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## QUICK-SETTING SCREED 444

Quick-setting cement subfloor, 25-80 mm



A specialist, quick-setting screed. Used on a distribution layer and as bound with substrate. A base under ceramic tiles, panels and for fixing fence posts.

- foot traffic: after 24 hours
- the possibility of applying further layers: after 5 days
- compressive strength:  $\geq 16 \text{ N/mm}^2$
- classification: CT-C16-F4
- consumption: ca.  $18 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,25 \text{ m}^2/\text{bag}/1 \text{ cm}$



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

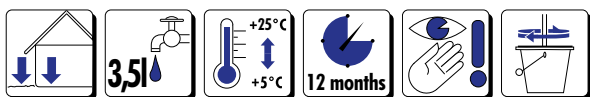
## QUICK-SETTING CONCRETE B-30 445

Quick-setting, high strength cement mortar, 25-100 mm



Mortar intended for quick fixing of e.g.: fence posts and making different concrete elements, for reparation of concrete beds with similar strength and other reparation works at home and in a garden. After drying up, it is waterproof and freezeproof. Ideal for making floor screeds. Bonds after 15 minutes.

- forms can be stripped after 2 hours
- operational load: after 24 hours
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- classification: EN 1504-3:2005
- consumption: ca.  $20,0 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,25 \text{ m}^2/\text{bag}/1 \text{ cm}$



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## CONCRETE B-30 446

High strength concrete mortar, freezeproof, from 25 mm



Mortar used for floor heating system, on a distribution layer, thermal insulation, as a floating base. On terraces and balconies. For fixing fence posts and making concrete elements. A base under ceramic tiles, panels, parquets, etc.

- foot traffic: after 48 hours
- the possibility of applying further layers: after 28 days
- compressive strength:  $\geq 30 \text{ N/mm}^2$
- consumption: ca.  $20,0 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,3 \text{ m}^2/\text{bag}/1 \text{ cm}$



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

NEW

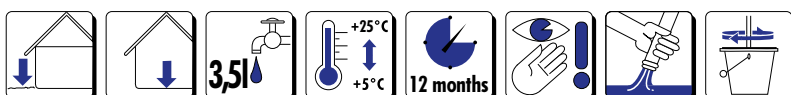
## STRONG CONCRETE B-20

Universal concrete mortar, freezeproof, 25-80 mm



Mortar used for making different concrete elements and reparation works at home and in a garden for fixing posts. Used as a floor base for floor heating system, on a distribution layer, thermal insulation, as a floating base and on terraces and balconies.

- foot traffic: after 48 hours
- the possibility of applying further layers: after 28 days
- compressive strength:  $\geq 20 \text{ N/mm}^2$
- classification: EN 1504-3:2005
- consumption: ca.  $20,0 \text{ kg/m}^2 / 1 \text{ cm}$
- coverage: ca.  $1,25 \text{ m}^2/\text{bag}/1 \text{ cm}$



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg



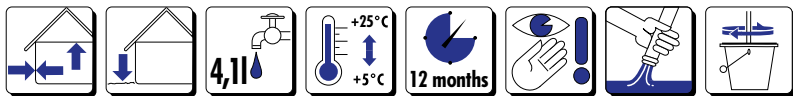
## LEVELLING MORTAR 428

Universal, freezeproof mortar for levelling walls and floors, 2-50 mm



For levelling substrate before fixing tiles and styrofoam panels. For filling installation grooves, losses. Used on concrete, ceramic elements and cement-limestone plasters. For levelling floor bases.

- foot traffic: after 24 hours
- the possibility of applying further layers: after 2 days
- compressive strength:  $\geq 20 \text{ N/mm}^2$
- classification: CT-C20-F5
- consumption: ca.  $20,0 \text{ kg/m}^2/1 \text{ cm}$
- coverage: ca.  $1,4 \text{ m}^2/\text{bag}/1 \text{ cm}$



**Bag:**






- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

# Masonry mortars

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Table 25. Properties of mortars

					
	POZMUR 115	POZMUR 116	POZMUR 117	THERMAL INSULATION MORTAR 120	PUSTLEP 140
Intended use:	general purpose	general purpose	general purpose	porous, thermal insulation clay blocks	glass blocks
Temperature of use	from +5 °C to +25 °C				
Colour	grey	grey	grey	grey	white and grey
Joint thickness	5-20 mm	5-20 mm	5-20 mm	10-15 mm	ca. 10 mm
Workability time period after mortar preparation in temperature of 20 °C	ca. 2 h	ca. 2 h	ca. 2 h	ca. 2 h	ca. 2 h
Average consumption per 1 sq. m. of wall surface	ca. 40 kg*	ca. 40 kg*	ca. 40 kg*	ca. 0 l**	ca. 18 kg
Compressive strength after 28 days of hardening	> 5,0 N/mm <sup>2</sup>	> 10,0 N/mm <sup>2</sup>	> 15,0 N/mm <sup>2</sup>	> 2,5 N/mm <sup>2</sup>	> 10,0 N/mm <sup>2</sup>
Frost resistance	Yes	Yes	Yes	Yes	Yes
Water resistance	Yes	Yes	Yes	Yes	Yes
Thermal conductivity λ	<1,17W/m*K	<1,17W/m*K	<1,17W/m*K	<1,18W/m*K	<1,17W/m*K

\* - Average consumption per 1 sq. m. of wall, built on width of 12 cm

\*\* - Consumption when 38 cm blocks are used

### POZMUR 115 M5

Masonry mortar



Indoor and outdoor use masonry mortar. Intended for erecting walls and pillars from ceramic, lime-sandstone, cement, concrete, autoclaved aerated concrete elements and other.

- compressive strength: M5
- joint strength:  $\geq 0,15 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-2 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - 44 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

### POZMUR 116 M10

Strong masonry mortar



Mortar for building elements with higher strength requirements. For application inside and outside, for construction of walls and pillars of ceramic, lime-sand, cement, concrete elements and elements of cellular concrete etc.

- compressive strength: M10
- joint strength:  $\geq 0,15 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-2 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - 44 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

### POZMUR 117 M15

Construction masonry mortar



This mortar is perfect for building foundation and construction walls. Intended mainly for building concrete blocks as well as bricks, especially those which require high mechanical strength from mortar. Suitable for construction of walls and pillars of ceramic, lime-sand, cement, concrete elements.

- compressive strength: M15
- joint strength:  $\geq 0,15 \text{ N/mm}^2$
- reaction to fire: A1
- grain sizes: 0 - 2 mm
- bulk density dry mix: ca. 1,45 g/cm<sup>3</sup>
- coverage: ca. 1,88 kg/1 dm<sup>3</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

### NEW

## THERMAL INSULATION MORTAR 120

Masonry mortar for thermal insulation



Masonry mortar for erecting partitions with thermal insulation properties from blocks, CMUs and heat-retaining brick. Indoor and outdoor use.

- compressive strength: M2,5
- joint strength:  $\geq 0,15 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-2 mm
- consumption: CMU block 38 cm wide - ca. 35 l/m<sup>2</sup>



**Bag:**

- 30 l
- 40 pcs per pallet
- pallet weight: 710 kg

## PUSTLEP 140

Masonry mortar for glass hollow bricks



The mortar is intended for building internal and external walls of glass hollow bricks and for making reinforced peripheral ribs in these walls. It prevents movement of reinforcement laid in joints and prevents reinforcement from contact with glass surface of hollow bricks.

- compressive strength: M10
- joint strength:  $\geq 0,15 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-2 mm
- consumption: ca. 18 kg/m<sup>2</sup> of wall of glass hollow bricks 19x19x8 cm.



**Bucket:**

Grey, white mortar:

- 15 kg
- 33 pcs per pallet
- pallet weight: 525 kg

Table 26. Properties of winter mortars



Intended use	Building of structures from aerated concrete blocks or silicates with thin mortar joints			
Temperature of use	from 0 °C to 25 °C			
Colour	White	White	Grey	Grey
Joint thickness	1-3 mm			
Workability time period after mortar preparation in temperature of 20 °C	Approx. 3 hours in temperature of 10 °C			
Consumption	block 12 cm wide - approx. 3 kg/sq.m. block 24 cm wide - approx. 6 kg/sq.m. block 36 cm wide - approx. 9 kg/sq.m. the use of interlocking blocks will reduce mortar consumption by approx. 20%			
Compressive strength	> 5,0 N/mm <sup>2</sup>	≥ 10,0 N/mm <sup>2</sup>	> 5,0 N/mm <sup>2</sup>	≥ 10,0 N/mm <sup>2</sup>
Frost resistance	Yes	Yes	Yes	Yes
Water resistance	Yes	Yes	Yes	Yes

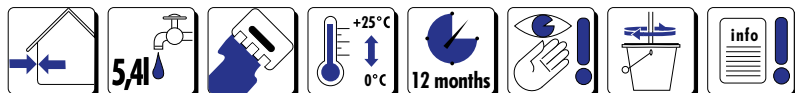
### MURLEP BZ 121 M5

Winter, white thin-layer masonry mortar



White, thin-layer masonry mortar dedicated to low temperatures - above 0°C, for autoclaved aerated and silicate blocks. Indoor and outdoor use.

- compressive strength: M5
- joint strength: ≥ 0,30 N/mm<sup>2</sup>
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - ca. 6 kg/m<sup>2</sup>



- Bag:
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg

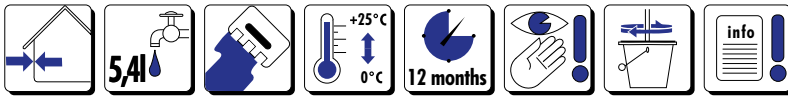
## MURLEP BZ 122 M10

Winter, white thin-layer masonry mortar



White, thin-layer masonry mortar for building elements which require higher strength to thin joints of blocks of cellular concrete and silicate blocks. For application inside and outside in winter periods at temperatures of over 0°C.

- compressive strength: M10
- joint strength:  $\geq 0,30 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - ca. 6 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

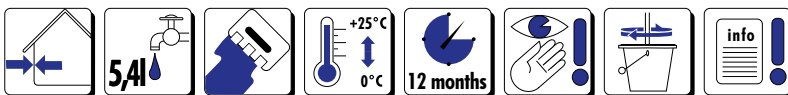
## MURLEP Z 123 M5

Winter, thin-layer masonry mortar



Thin-layer masonry mortar for low-temperature works - above 0°C, intended for autoclaved aerated and silicate blocks. Indoor and outdoor use.

- compressive strength: M5
- joint strength:  $\geq 0,30 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24cm) - ca. 6 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

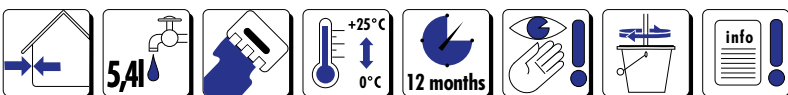
## MURLEP Z 124 M10

Winter, thin-layer masonry mortar



Mortar for building elements which require higher strength to thin joints of blocks of cellular concrete, gas concrete and silicate blocks. For application inside and outside in winter periods, at temperatures no lower than 0°C.

- compressive strength: M10
- joint strength:  $\geq 0,30 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24cm) - ca. 6 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

Table 27. Properties of thin-layer mortars



Intended use	Building of structures from aerated concrete blocks or silicates with thin mortar joints			
Temperature of use	from +5 °C to 25 °C			
Colour	White	Grey	White	Grey
Joint thickness	1-3 mm			
Workability time period after mortar preparation in temperature of 20 °C	Approx. 3 hours			
Consumption	block 12 cm wide - approx. 3 kg/sq.m. block 24 cm wide - approx. 6 kg/sq.m. block 36 cm wide - approx. 9 kg/sq.m. the use of interlocking blocks will reduce mortar consumption by approx. 20%			
Compressive strength	> 5,0 N/mm <sup>2</sup>	≥ 5,0 N/mm <sup>2</sup>	> 10,0 N/mm <sup>2</sup>	≥ 10,0 N/mm <sup>2</sup>
Frost resistance	Yes	Yes	Yes	Yes
Water resistance	Yes	Yes	Yes	Yes

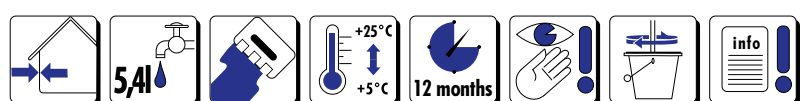
### MURLEP 125 M5

Thin-layer masonry mortar



Mortar for making external and internal walls of blocks of cellular concrete linked with thin joints. It is also suitable to build walls of lime-sand blocks (silicate).

- compressive strength: M5
- joint strength: ≥ 0,30 N/mm<sup>2</sup>
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - ca. 6 kg/m<sup>2</sup>



- Bag:
- 25 kg
  - 48 pcs per pallet
  - pallet weight: 1230 kg



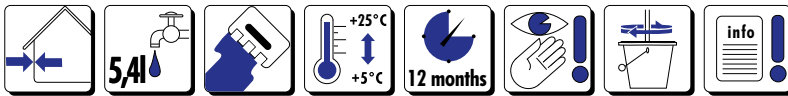
**MURLEP-B 126 M5**

White, thin-layer masonry mortar



White mortar for making external and internal walls of blocks of cellular concrete linked with thin joints. It is also suitable for building walls of lime-sand blocks (silicate).

- compressive strength: M5
- joint strength:  $\geq 0,30 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - ca. 6 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

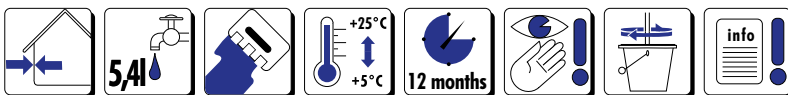
**MURLEP 127 M10**

Thin-layer masonry mortar



Mortar for making external and internal elements with higher strength requirements of blocks of cellular concrete and silicate blocks linked with thin joints.

- compressive strength: M10
- joint strength:  $\geq 0,30 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - ca. 6 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

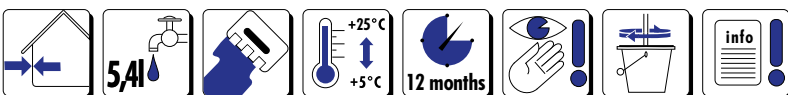
**MURLEP-B 128 M10**

White, thin-layer masonry mortar



White mortar for making external and internal walls of blocks of cellular concrete linked with thin joints. It is also suitable for building walls of lime-sand blocks (silicate).

- compressive strength: M10
- joint strength:  $\geq 0,30 \text{ N/mm}^2$
- reaction to fire: class A1
- grain sizes: 0-0,5 mm
- joint thickness: up to 3 mm
- consumption: autoclaved aerated concrete (thickness 24 cm) - ca. 6 kg/m<sup>2</sup>



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**NEW**

# Plastering mortars

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Table 28. Properties of cement-lime plasters I









				
	500	501	503SL	511L
Scope of use	5-15 mm	5-20 mm	5-25 mm	5-15 mm
Granulation max.	0,5 mm	1,4 mm	0,5 mm	0,5 mm
Colour	Grey	Grey	Grey	White
Thermal conductivity $\lambda$	$\leq 0,67$	$\leq 0,47$	$< 0,47$	$< 0,47$
Compressive strength	CSII	CSIII	CSII	CSII
Frost resistance	Yes	Yes	No	Yes
Water resistance	Yes	Yes	Yes	Yes
Coverage per 1 m <sup>2</sup> / 1 cm	12,5 kg	13,0 kg	9,0 kg	12,5 kg

Table 29. Properties of cement-lime plasters II

				
	520	561	561L	560
Scope of use	5-30 mm	5-25 mm	5-25 mm	8-25 mm
Granulation max.	1,2 mm	0,6 mm	0,6 mm	1,4 mm
Colour	Grey	Grey	Grey	Grey
Thermal conductivity $\lambda$	0,12	$< 0,47$	$< 0,47$	$\leq 0,83$
Compressive strength	CSII	CSII	CSII	CSII
Frost resistance	Yes	No	No	Yes
Water resistance	Yes	Yes	Yes	Yes
Coverage per 1 m <sup>2</sup> / 1 cm	12,5 l	14,0 kg	11,0 kg	18,5 kg

## HEAT-INSULATING PLASTER 520

Heat insulating cement-lime plaster, 5-30 mm



Plaster intended for manual making of heat insulating finishing coats. It is especially advisable to plaster walls made of materials with high thermal insulating power (e.g. Ytong, Porotherm, expanded clay aggregate blocks and other). For application inside and outside buildings.

- grain sizes: up to 1,2 mm
- category: CS II
- thermal conductivity  $\lambda$ :  $\leq 0,12$  W/m<sup>2</sup>K
- consumption: avg ca. 12,5l/m<sup>2</sup> /1 cm
- coverage: ca. 2,3 m<sup>2</sup>/bag



Bag:

- 30 l
- 40 pcs per pallet
- pallet weight: 1230 kg

## CEMENT RENDERING COAT 550

Cement rendering coat



For mechanical or manual making of traditional cement plaster rendering coat under substrate plasters. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements, silicate elements and on concrete beds. For application inside and outside buildings.

- grain sizes: up to 1,4 mm
- category: CS IV
- layer thickness: 4-5 mm
- consumption: avg ca. 6-8 kg/m<sup>2</sup>
- coverage: ca. 5 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## POZTYNK 560

Traditional, manual plastering mortar, 8-25 mm



For manual making of traditional finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements, silicate elements and on concrete beds. For application inside and outside buildings.

- grain sizes: up to 1,4 mm
- category: CS II
- consumption: ca. 18,5 kg/m<sup>2</sup> / 1cm
- coverage: ca. 1,35 m<sup>2</sup>/bag



Bag:

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## SMOOTH SPRAY APPLIED PLASTER 500

Smooth, freezeproof cement-lime spray applied plaster, 5-15 mm



The plaster is intended for mechanical or manual application of smooth thin-layer single-layer finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements, concrete elements. For application inside and outside buildings.

- grain sizes: up to 0,5 mm
- category: CS II
- consumption: avg ca. 12,5 kg/m<sup>2</sup>/ 1cm
- coverage: ca. 2,3 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## SPRAY APPLIED PLASTER 501

Freezeproof cement-lime spray applied plaster, 5-20 mm



The plaster is intended for mechanical or manual application of multi-layer finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements, concrete elements. For application inside and outside buildings and for humid rooms.

- grain sizes: up to 1,4 mm
- category: CS III
- consumption: avg ca. 13,0 kg/m<sup>2</sup>/ 1cm
- coverage: ca. 2,2 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## SUPER LIGHT SPRAY APPLIED PLASTER 503SL

Machine-applied, cement-lime plaster, ultra-light, 5-25 mm



This highly-efficient plaster is intended for mechanical or manual making of multi-layer finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements, concrete elements. Applied in humid rooms.

- grain sizes: up to 0,5 mm
- category: CS I
- consumption: avg ca. 9,0 kg/m<sup>2</sup>/ 1cm
- coverage: ca. 3,3 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## LIGHT WHITE PLASTER 511L

White, light, machine-applied, cement-lime plaster, 5-15 mm



The plaster is intended for mechanical or manual application of smooth single-layer finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements and concrete elements. For application inside and outside buildings and for humid rooms.

- grain sizes: up to 0,5 mm
- category: CS II
- consumption: avg ca. 12,5 kg/m<sup>2</sup>/ 1cm
- coverage: ca. 2,3 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## SPRAY APPLIED PLASTER 561

Machine-applied, cement-lime plaster, 5-25 mm



The plaster is intended for mechanical or manual application of smooth finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements and concrete elements.

- grain sizes: up to 0,6 mm
- category: CS II
- consumption: avg ca. 14 kg/m<sup>2</sup>/1 cm
- coverage: ca. 2,1 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg

## LIGHT SPRAY APPLIED PLASTER 561L

Machine-applied, cement-lime plaster, light, 5-25 mm



The light plaster is intended for mechanical or manual application of smooth finishing coats. On walls and masonry ceilings of blocks of cellular concrete, ceramic elements and concrete elements. Waterproof, intended for indoor applications and in humid rooms.

- grain sizes: up to 0,6 mm
- category: CS II
- consumption: avg ca. 11 kg/m<sup>2</sup>/ 1cm
- coverage: ca. 2,7 m<sup>2</sup>/bag



Bag:

- 30 kg
- 42 pcs per pallet
- pallet weight: 1290 kg



[www.kreisel.pl](http://www.kreisel.pl)

No.	Product	Silo technique	Indoor	Outdoor
500	SMOOTH SPRAY APPLIED PLASTER	●	●	●
501	SPRAY APPLIED PLASTER	●	●	●
503SL	SUPER LIGHT SPRAY APPLIED PLASTER	●	●	○
511L	LIGHT WHITE PLASTER	●	●	●
520	HEAT-INSULATING PLASTER	○	●	●
561	SPRAY APPLIED PLASTER	●	●	○
561L	LIGHT SPRAY APPLIED PLASTER	●	●	○
550	CEMENT RENDERING COAT	●	●	●
560	POZTYNK PLASTER MORTAR	○	●	●

# Protecting and cleaning agents

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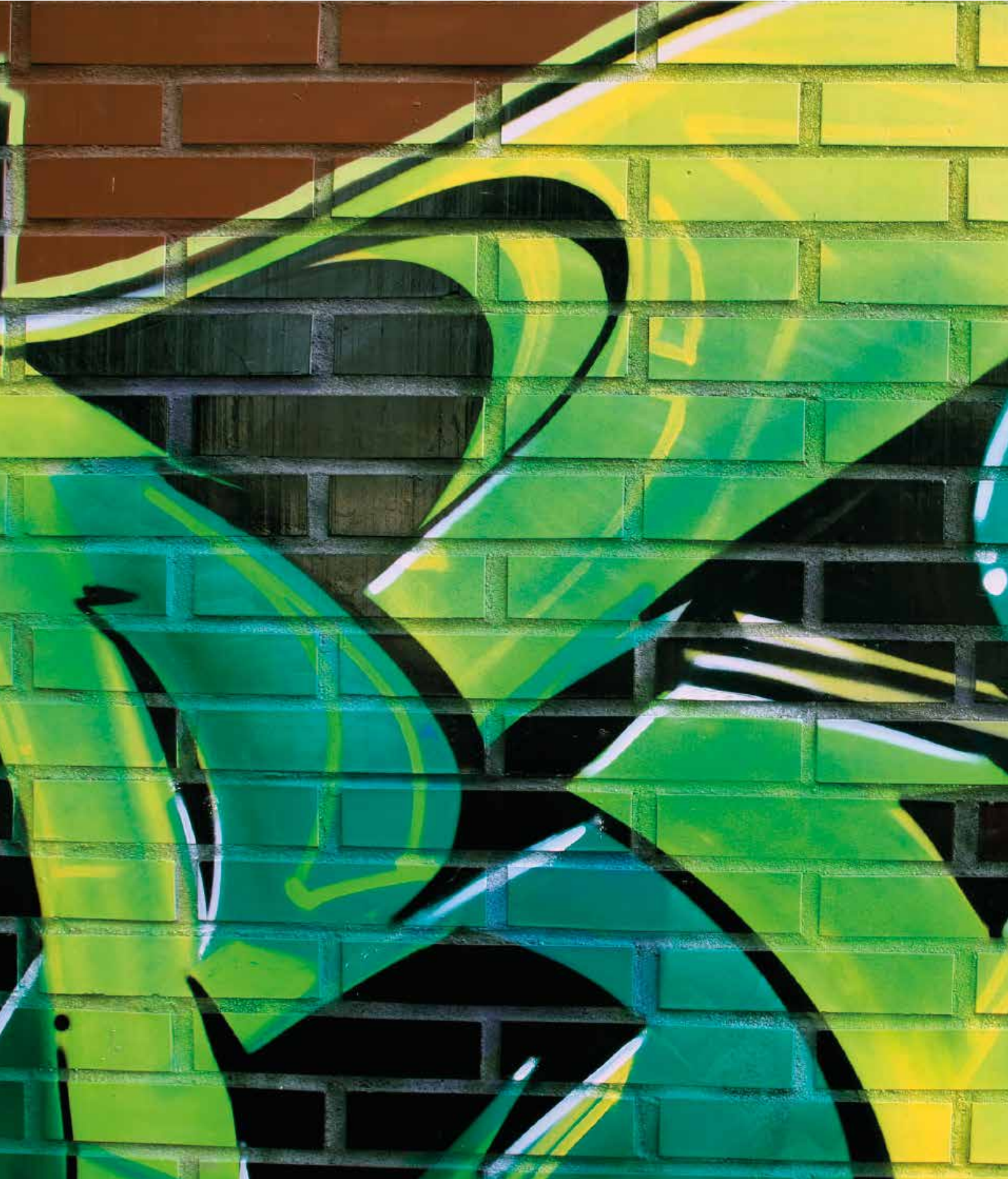




Table 30. Properties and application scope of protective and cleaning agents

	 ANTIGRAFFITI 1006	 RESIDUE REMOVER 1007	 SEPTOBUD 1008	 HYDROMUR-W 1010
Intended use	Protection against graffiti	Removal of cement residues	Aggressive biological disinfectant	Impregnation, hydrophobisation
Base	WATER	WATER	WATER	WATER
pH	7	2,5	3,5	6-8
Colour	Colourless	Colourless	Colourless	Colourless
<b>Application areas</b>				
Clinkerised elements	●	●	●	●
Ceramic tiles	●	●	●	●
Stone elements	●	●	●	●
Decorative plasters	●	●	●	●
Facade paints	●	●	●	●
Traditional plasters	●	●	●	●
Roof tiles	●	●	●	●
Steel	●	●	●	●
Noble metals	●	●	●	●
Plastics	●	●	●	●
Sanitary ceramics	●	●	●	●

● is present ● is not present

## ANTYGRAFFITI 1006

Anti-graffiti protective coating



Dispersive solution creating a colourless protective coat, easily washable using pressurized hot water. After washing the coat must be restored to provide further protection. Intended for securing surfaces against spray paint; dedicated to cement-lime plasters, thin-layer dispersive plasters, facade paints, clinker cladding, stone cladding, etc. Do not apply on non-absorbent groundworks, such as: ceramic tiles, laminates, sheet metal.

- colour: colourless after drying
- layer drying-up time: ca. 24 hours
- number of layers: 2
- consumption: 0,2 - 0,7 l/m<sup>2</sup> depending of substrate absorbency
- coverage: up to 5 m<sup>2</sup>/1 kg



Bucket:

- 1 kg
- 8 pcs per carton
- carton weight: 9 kg

## RESIDUE REMOVER 1007

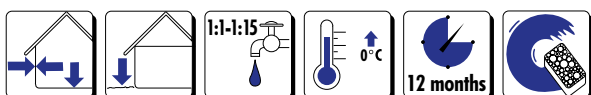
Cement and lime sediment remover



Intended for non-aggressive removal of various types of cement and lime sediments. For washing dirt and stains produced by water-borne minerals, rust, etc. For cleaning ceramic tiles and other, clinker bricks, chrome-plated elements, noble metal elements, plastic elements, and varnished elements.

Indoor and outdoor use.

- bulk density: 1,05 g/cm<sup>3</sup>
- colour: colourless after drying
- layer drying-up time: depending on the temperature
- consumption: depending on the degree of staining



Plastic container:

- 1 l
- 12 pcs per carton
- carton weight: 13 kg

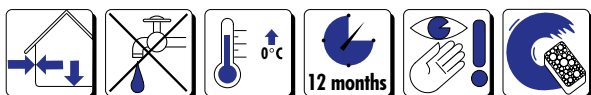
## SEPTOBUD 1008

Biocide



Intended for removing microorganisms (algae, mold) on facades, plasters, etc. Also suitable for cleaning, disinfecting walls roofs, rustproof production devices, sanitary equipment, etc. Indoor and outdoor use.

- bulk density: 1,00 g/cm<sup>3</sup>
- colour: colourless after drying
- layer drying-up time: depending on the temperature
- pH: ca. 3,5
- consumption: ca. 0,15 - 0,2 l/m<sup>2</sup> depending on the degree of staining
- coverage: up to 35 m<sup>2</sup> /5 l



Plastic container:

- 0,5 l
- 12 pcs per carton
- carton weight: 6,7 kg

- 1 l
- 12 pcs per carton
- carton weight: 13 kg

- 5 l
- 120 pcs per pallet
- carton weight: 642 kg

**HYDROMUR-W 1010**

Water-based hydrophobizing agent



Intended for creating a hydrophobic film on absorbent surfaces of construction elements, both indoor and outdoor. For securing facades against the penetration of rainwater and aggressive compounds. Intended for mineral plasters (without gypsum content), stone cladding, concrete, terrazzo, mineral paint coats, ceramic brick walls, clinker, silicate surfaces, ceramic and cement roof tiles, cement-fiber panels, etc.

- bulk density: 1,00 g/cm<sup>3</sup>
- colour: colourless after drying
- consumption: ca. 0,2 - 0,7 l/m<sup>2</sup> depending on the degree of staining
- coverage: up to 25 m<sup>2</sup> /5 l



**Plastic container:**

- 1 l
- 12 pcs per carton
- carton weight: 13 kg
- 5 l
- 120 pcs per pallet
- carton weight: 642 kg

# Additional materials

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## SAND FOR SANDPITS 098



Sand for filling sandpits on playgrounds for children and home gardens. Safe, has an attestation of the National Institute of Hygiene (PZH). Ready for application.

- grain size: 0,1-0,5 mm
- consumption: depending on application



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

## DECORATIVE QUARTZ SAND 099



Sand for general use: for performing construction works, making simple building mortars, filling sandpits on playgrounds for children.

- grain size: 0,5-1,4 mm
- consumption: depending on application



**Bag:**

- 25 kg
- 48 pcs per pallet
- pallet weight: 1230 kg

**AGREGAT KALETA-5**

It is intended for mechanical application of gypsum, gypsum-lime, lime-cement plasters and for making self-levelling grouts after changing a screw pump and pressure pipe.

- capacity of intake hopper: 135 kg of mixture
- efficiency: 6-60 l/min. (depending on mixture and type of pump)
- max. forcing pressure: 30 atm
- mortar feeding distance: 20 m (depending on mixture and type of pump)



Price:

- [info](#)

**AGREGAT KALETA-5 SUPER**

It is intended for mechanical application of gypsum, gypsum-lime, lime-cement plasters and for making self-levelling grouts after changing a screw pump and pressure pipe.

- capacity of intake hopper: 135 kg of mixture
- efficiency: 6-60 l/min. (depending on mixture and type of pump)
- max. forcing pressure: 30 atm
- mortar feeding distance: 20 m (depending on mixture and type of pump)



Price:

- [info](#)

# MOSAIC RENDER SAMPLE 051 \*



TTTT



MMMM



DDDD



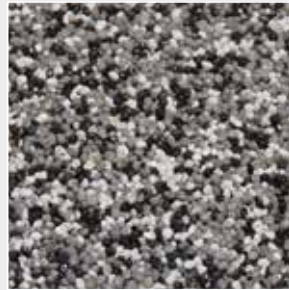
CCCC



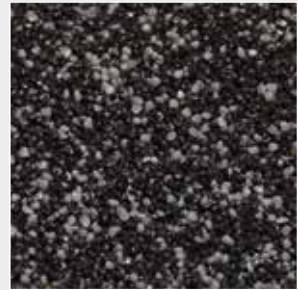
TTDD



DDDT



DDCT



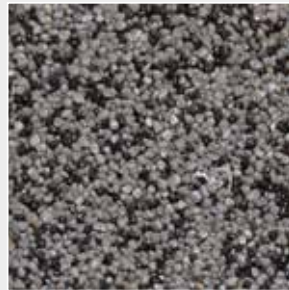
CCCC



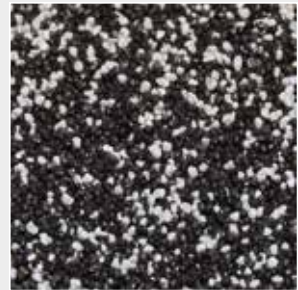
TTTC



CCTM



DDDC



CCCT



UUUU



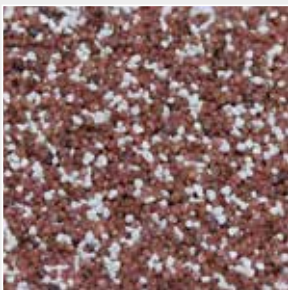
FFFF



BBBB



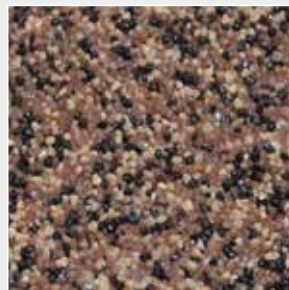
GGGG



BBBT



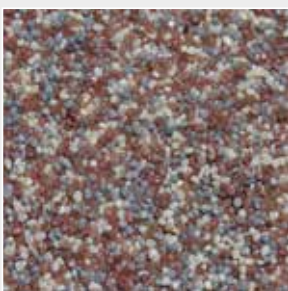
GGGN



FFCJ



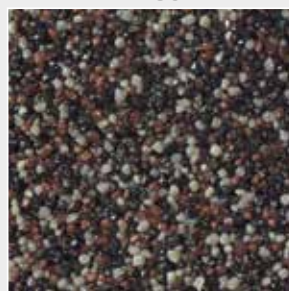
GGCI



BDNF



CDNB



CCGD



CCGG

\* The tables are for colour demonstration purposes only.

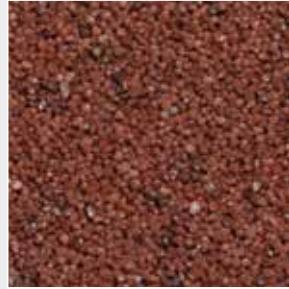
# MOSAIC RENDER SAMPLE 051 \*



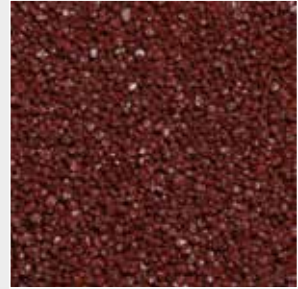
JJJJ



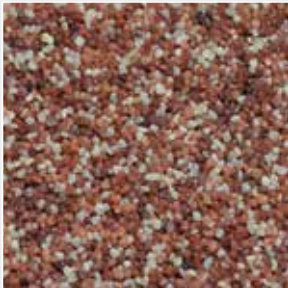
IIII



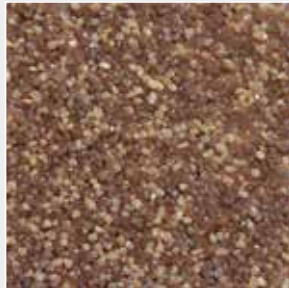
AAAA



SSSS



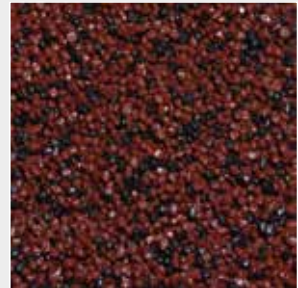
ABIL



FFFJ



BBGI



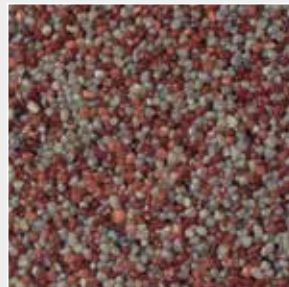
SSSC



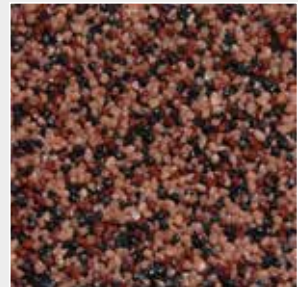
TTJJ



TBIJ



ASDD



CIIS



NNNN



OOOO



KKKK



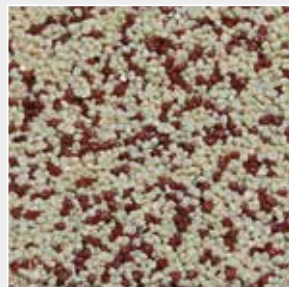
PPPP



TNNO



TNNF



NNNS



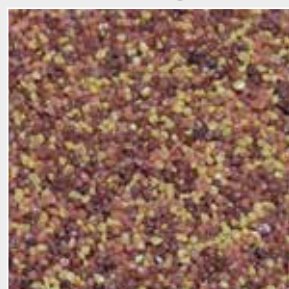
TNGG



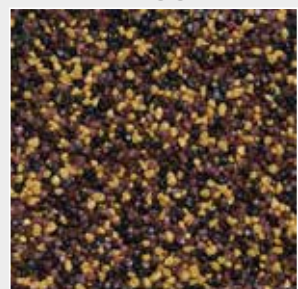
NNJJ



OGTM



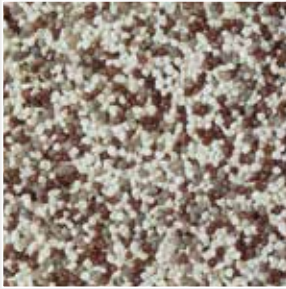
BBIK



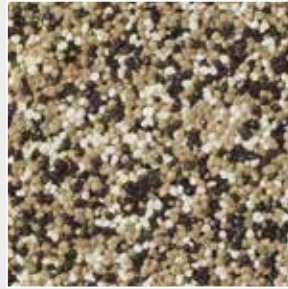
PCBG



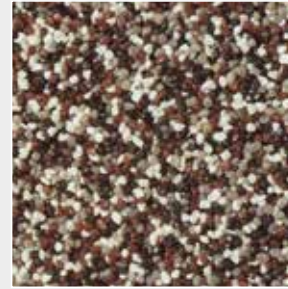
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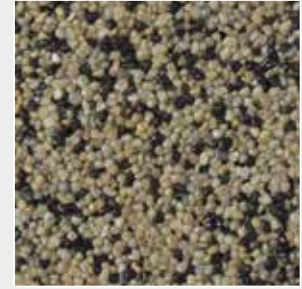
TTDB



UUCT



TDCG



CUMM



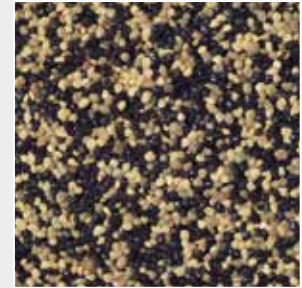
NNTM



UNDD



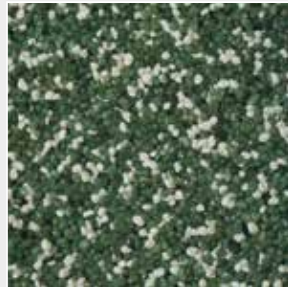
UCJO



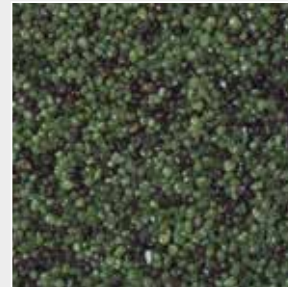
CCUO



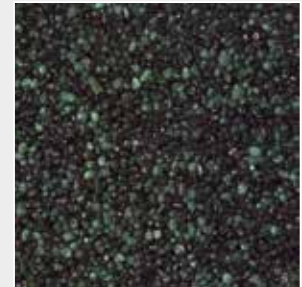
ZZZZ



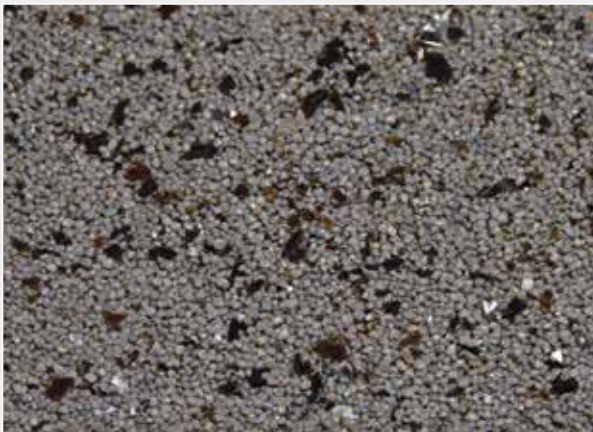
ZZZT



ZZZC



ZCCC



Colour: DDDD Granulation: 1,8 mm + MICA black



Colour: NNNN Granulation: 1,8 mm+ MICA silver



Colour: GGGG Granulation: 1,2 mm



Colour: GGGG Granulation: 1,8 mm

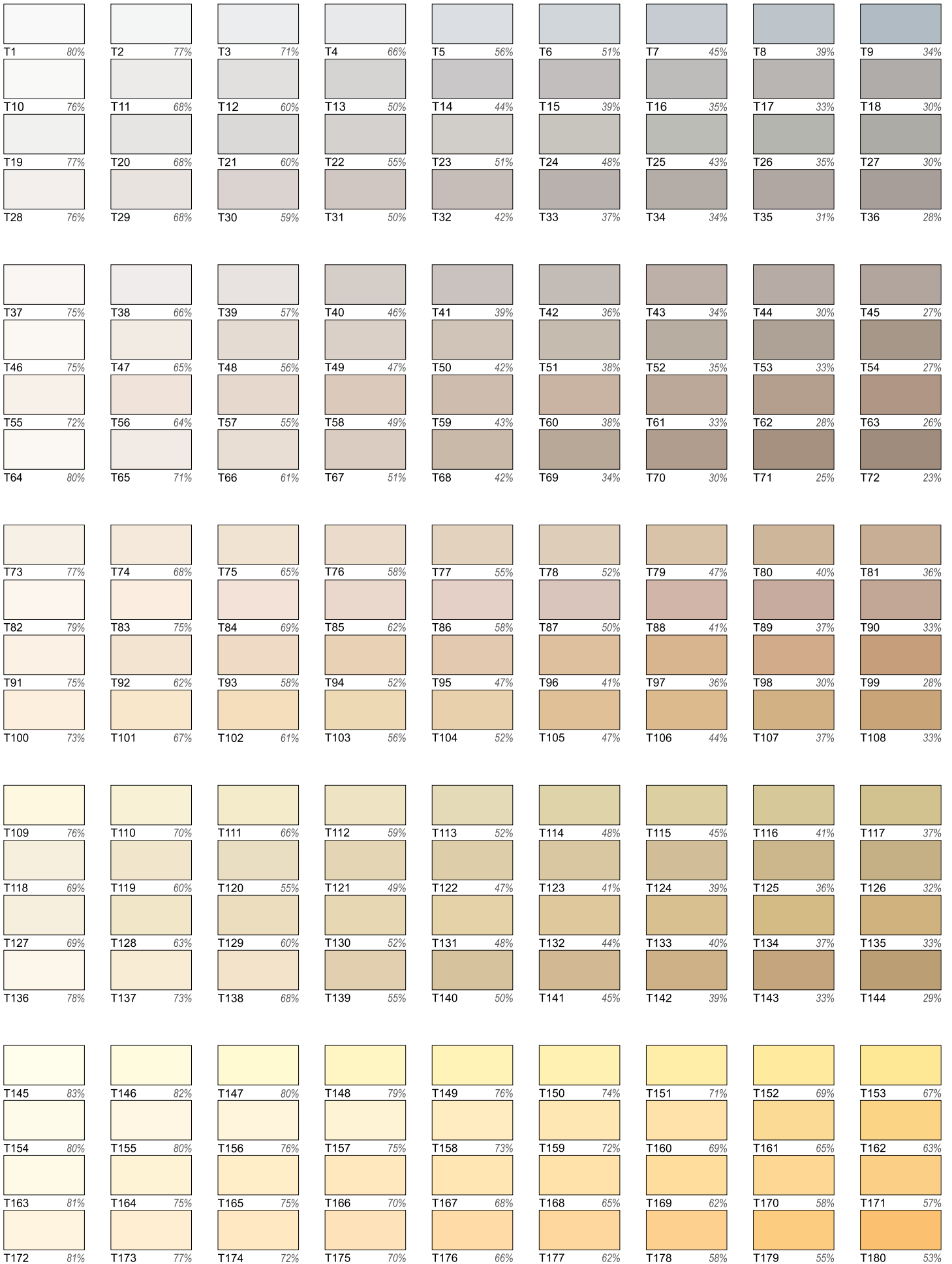
\* The tables are for colour demonstration purposes only.

# ARCHITECTURAL CONCRETE 055 - MODEL STRUCTURES



\* The tables are for colour demonstration purposes only.

# COLOUR CHART *Trendy!*



# COLOUR CHART *California* \*

## A

A11	20%	A12	26%	A13	32%	A14	40%
A21	29%	A22	29%	A23	36%	A24	40%
A31	26%	A32	40%	A33	56%	A34	69%
A41	38%	A42	53%	A43	64%	A44	67%
A51	33%	A52	50%	A53	41%	A54	58%
A61	32%	A62	41%	A63	55%	A64	55%
A71	60%	A72	66%	A73	75%	A74	75%
A81	47%	A82	62%	A83	61%	A84	74%

## C

C11	17%	C12	28%	C13	43%	C14	59%
C21	31%	C22	46%	C23	61%	C24	72%
C31	25%	C32	24%	C33	39%	C34	43%
C41	27%	C42	48%	C43	62%	C44	73%
C51	39%	C52	53%	C53	68%	C54	70%
C61	42%	C62	55%	C63	68%	C64	76%
C71	54%	C72	56%	C73	53%	C74	68%
C81	42%	C82	46%	C83	58%	C84	61%

## B

B11	21%	B12	34%	B13	44%	B14	62%
B21	31%	B22	31%	B23	48%	B24	66%
B31	36%	B32	49%	B33	47%	B34	58%
B41	38%	B42	42%	B43	61%	B44	72%
B51	40%	B52	47%	B53	53%	B54	65%
B61	58%	B62	67%	B63	74%	B64	78%
B71	72%	B72	73%	B73	78%	B74	78%
B81	53%	B82	69%	B83	82%	B84	76%

## D

D11	59%	D12	69%	D13	71%	D14	80%
D21	45%	D22	70%	D23	78%	D24	83%
D31	60%	D32	72%	D33	80%	D34	80%
D41	54%	D42	66%	D43	76%	D44	81%
D51	61%	D52	73%	D53	74%	D54	85%
D61	59%	D62	68%	D63	74%	D64	78%
D71	61%	D72	64%	D73	62%	D74	70%
D81	48%	D82	58%	D83	58%	D84	55%

# COLOUR CHART **Color Design** \*

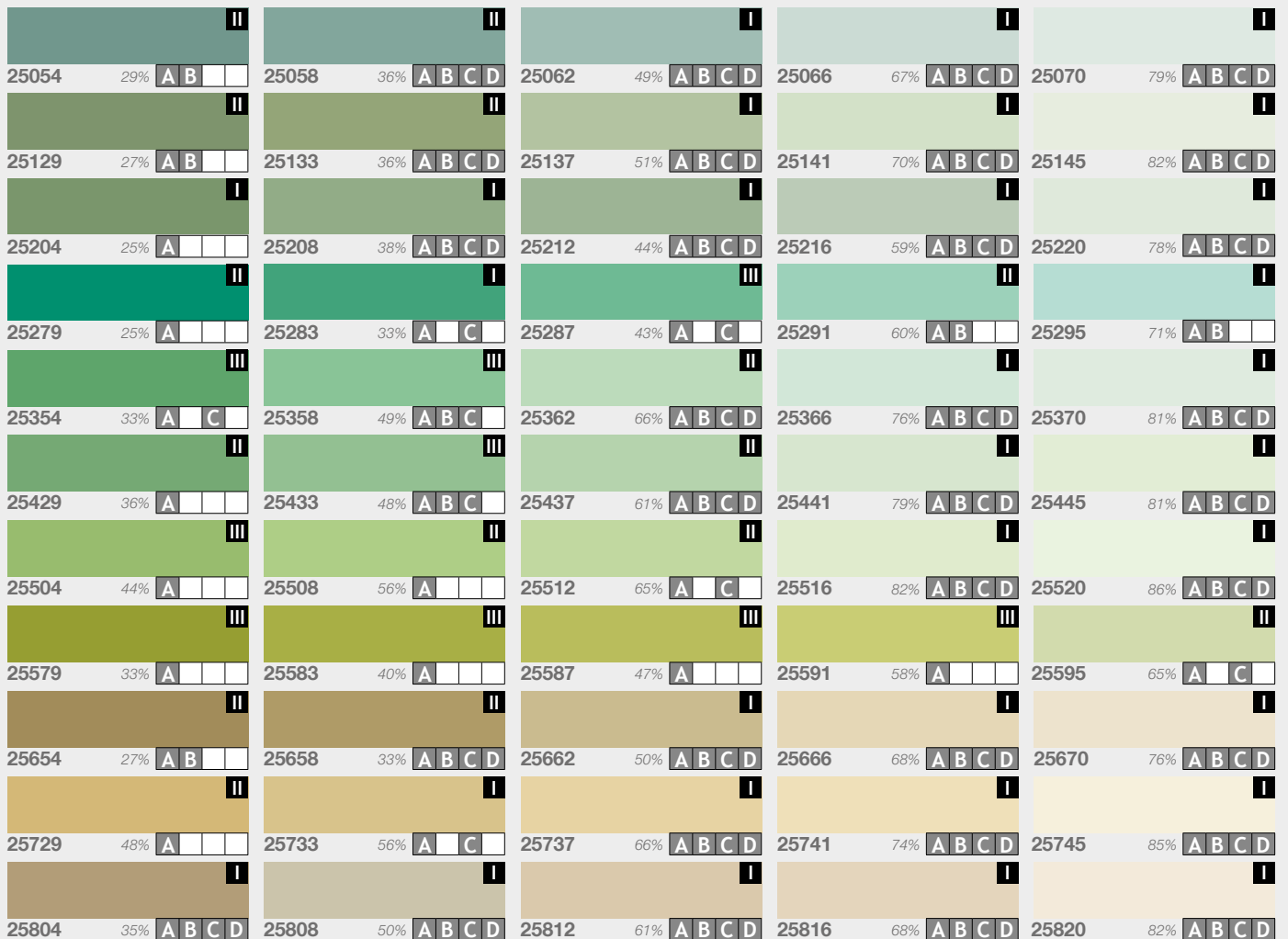
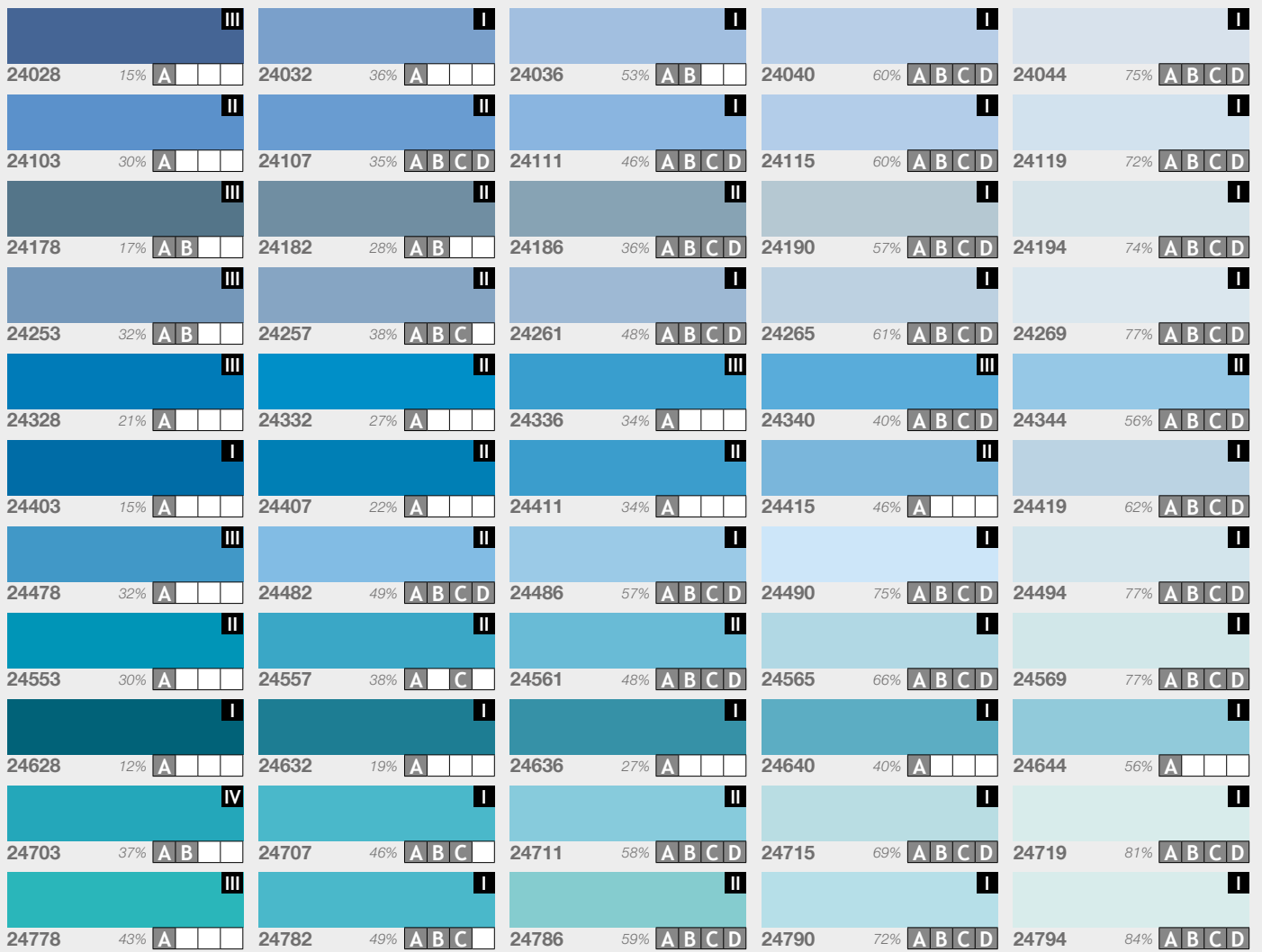
TIPS AND DESCRIPTIONS OF SYMBOLS:

<b>II</b>	Price group: I, II, III, IV	<b>20081</b> The number of a colour		
<b>A</b>	Acrylic render AKRYTYNK 010		ACRYLIC PAINT 001	
	Silicate-silicone render SISITYNK 040		LATEX PAINT 011	
	Nano-silicone render SILIKON PROTECT 031		INTERIOR PAINT Colour 014	
	Polysilicone BIO-render BIOTYNK 042		Polysilicone facade paint BIOPAINT 008	
	Ecological thin-layer render ECO TYNK 022		ELASTIC PAINT 007	
	ARCHITECTURAL CONCRETE 055			
<b>B</b>	Silicate render SILIKATYNK 020		Winter silicate render SILIKATYNK-Z 021	
<b>C</b>	SILICONE PAINT 003		Nano-silicone facade paint NANOTECH 006	
<b>D</b>	SILICATE PAINT 002		Silicate-silicone paint SISI PAINT 004	
	Ecological facade paint ECO PAINT 009			

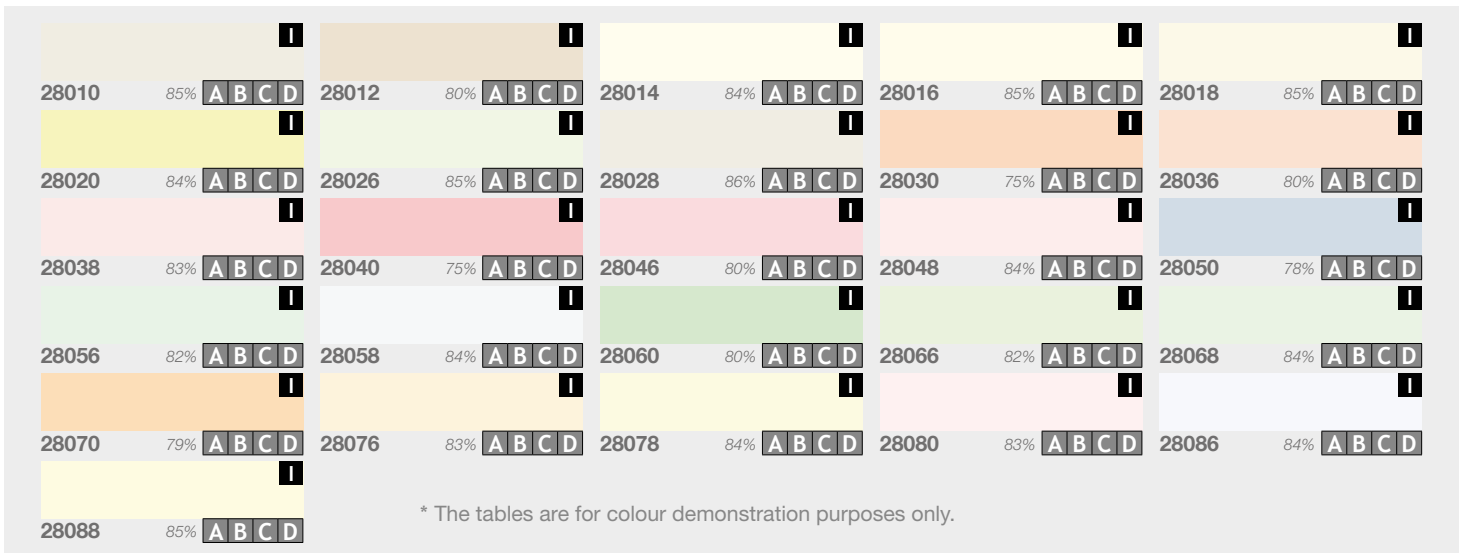
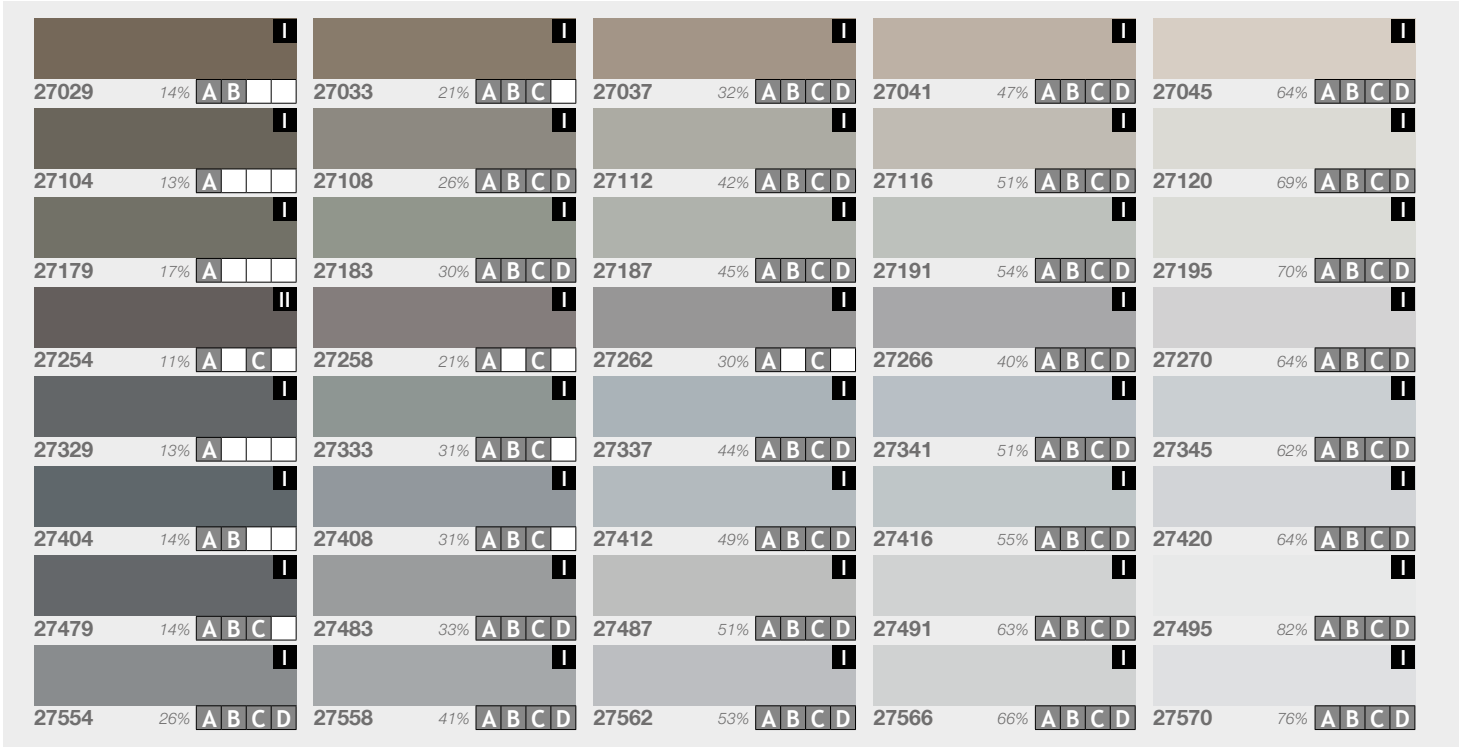
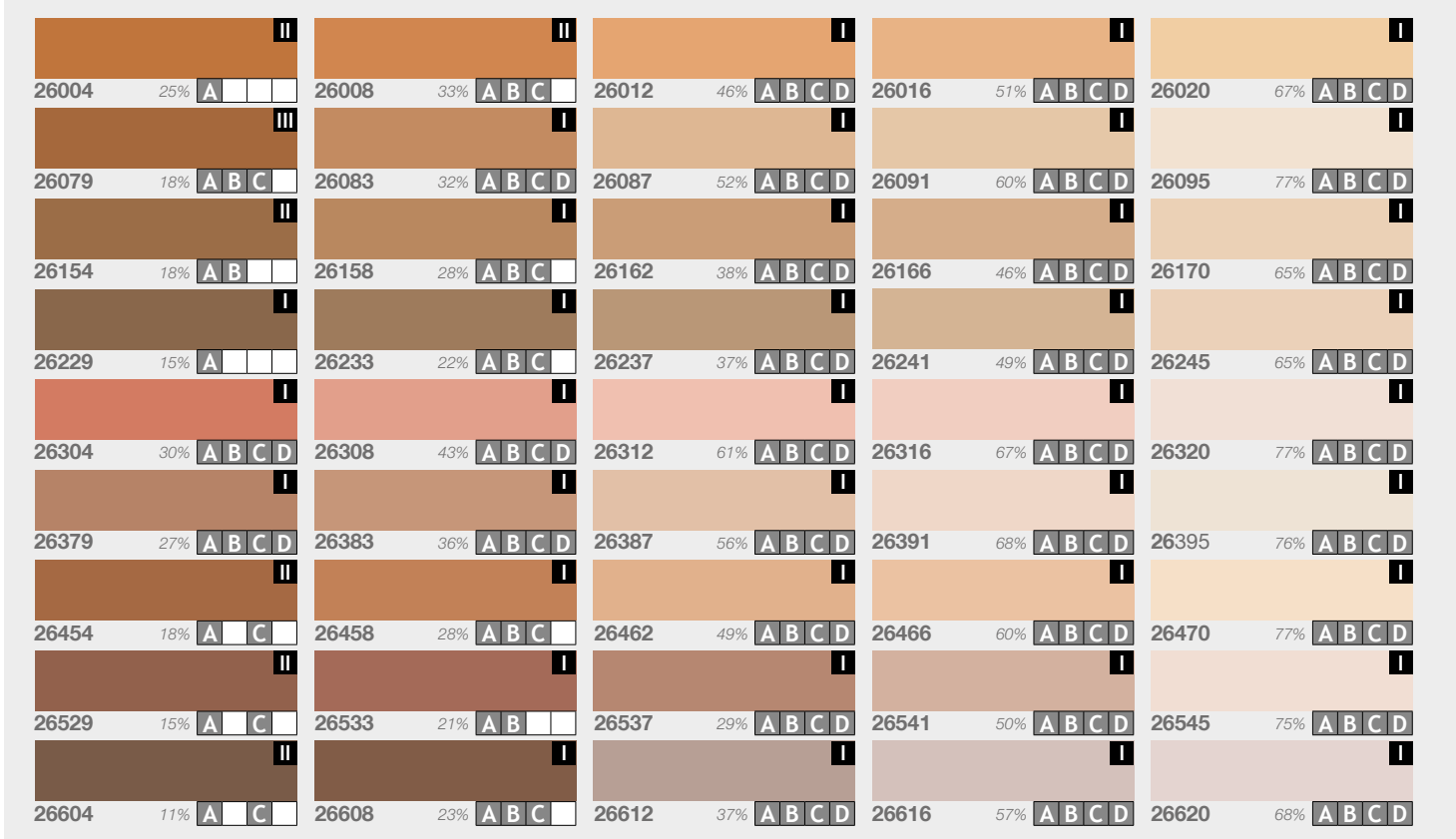
20002	63%	A				II	20006	68%	A	B			III	20010	71%	A	B	C		II	20014	76%	A	B	C	D	II	20018	80%	A	B	C	D	I
20077	61%	A	B			III	20081	69%	A	B	C	D	II	20085	74%	A	B	C	D	I	20089	78%	A	B	C	D	I	20093	82%	A	B	C	D	I
20152	67%	A				III	20156	75%	A	B	C	D	II	20160	81%	A	B	C	D	II	20164	83%	A	B	C	D	I	20168	85%	A	B	C	D	I
20227	68%	A				II	20231	73%	A				II	20235	78%	A		C		I	20239	83%	A	B	C	D	I	20243	87%	A	B	C	D	I
20302	59%	A	B			III	20306	69%	A	B	C	D	II	20310	78%	A	B	C	D	II	20314	81%	A	B	C	D	I	20318	84%	A	B	C	D	I
20377	56%	A	B	C		II	20381	65%	A	B	C	D	II	20385	70%	A	B	C	D	I	20389	80%	A	B	C	D	I	20393	82%	A	B	C	D	I
20402	67%	A				III	20406	74%	A				III	20410	81%	A		C		II	20414	84%	A	B	C	D	I	20418	88%	A	B	C	D	I
20452	45%	A				III	20456	57%	A	B	C		II	20460	66%	A	B	C	D	II	20464	82%	A	B	C	D	I	20468	83%	A	B	C	D	I
20527	45%	A	B	C		III	20531	63%	A	B	C	D	I	20535	70%	A	B	C	D	I	20539	82%	A	B	C	D	I	20543	85%	A	B	C	D	I
20602	37%	A		C		II	20606	51%	A	B	C	D	I	20610	63%	A	B	C	D	I	20614	76%	A	B	C	D	I	20618	80%	A	B	C	D	I

21027	48%	A	B	C		I	21031	61%	A	B	C	D	I	21035	70%	A	B	C	D	I	21039	72%	A	B	C	D	I	21043	79%	A	B	C	D	I
21102	46%	A				III	21106	62%	A		C		II	21110	68%	A		C		II	21114	75%	A		C		I	21118	82%	A	B	C		
21177	30%	A		C		II	21181	48%	A	B	C	D	I	21185	60%	A	B	C	D	I	21189	71%	A	B	C	D	I	21193	80%	A	B	C	D	I
21252	39%	A				IV	21256	46%	A				II	21260	52%	A		C		II	21264	61%	A				I	21268	67%	A				
21327	36%	A				III	21331	55%	A		C		I	21335	63%	A		C		I	21339	74%	A	B	C	D	I	21343	78%	A	B	C	D	I
21402	21%	A		C		III	21406	35%	A		C		II	21410	47%	A		C		II	21414	59%	A		C		I	21418	74%	A	B	C	D	I
21477	33%	A				III	21481	47%	A		C		I	21485	54%	A	B	C	D	I	21489	64%	A	B	C	D	I	21493	77%	A	B	C	D	I
21552	34%	A				III	21556	47%	A		C		III	21560	61%	A		C		II	21564	65%	A		C		I	21568	77%	A	B	C	D	I





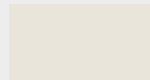

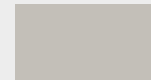











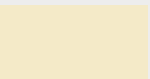
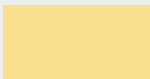
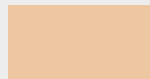

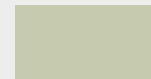









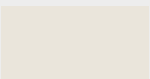
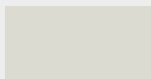
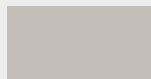



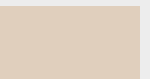







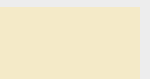
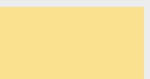
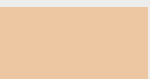

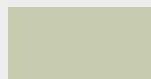





\* The tables are for colour demonstration purposes only.

## COLOUR CHART NANOTECH GROUT 730, SILVER GROUT 731 \*


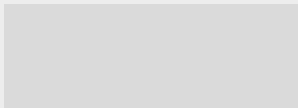


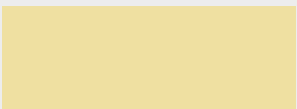


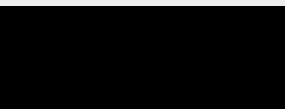
							
1A PURE WHITE	2A WHITE	3A PLATINUM	4A SILVER	5A MANHATTAN	6A STEEL	7A GREY	8A GRAPHITE
							
9A ECRU	10A CAPPUCCINO	11A BAHAMA	12A BEIGE	13A CAMEL	14A LIGHT BROWN	15A BROWN	16A DARK BROWN
							
17A JASMINE	18A GOLDEN SAND	19A APRICOT	20A BRICK-RED	21A OLIVE	22A GREEN	23A DARK BLUE	24A BLACK

## COLOUR CHART SILICONE NANOTECH 720 \*

							
1A PURE WHITE	2A WHITE	3A PLATINUM	4A SILVER	5A MANHATTAN	6A STEEL	7A GREY	8A GRAPHITE
							
9A ECRU	10A CAPPUCCINO	11A BAHAMA	12A BEIGE	13A CAMEL	14A LIGHT BROWN	15A BROWN	16A DARK BROWN
							
17A JASMINE	18A GOLDEN SAND	19A APRICOT	20A BRICK-RED	21A OLIVE	22A GREEN	23A DARK BLUE	24A BLACK

  
25A  
COLOURLESS

## COLOUR CHART: POZMUR-KL NANO 130, CLINKER GROUT 701, GROUT FOR FACADE STONE 702 \*

			
WHITE	LIGHT GREY	GREY	GRAPHITE
			
SAND	BROWN	BRICK-RED	BLACK

## COLOR FACADE BOARDS



DARK OLIVE



LIGHT GOLD OAK



LIGHT WALNUT



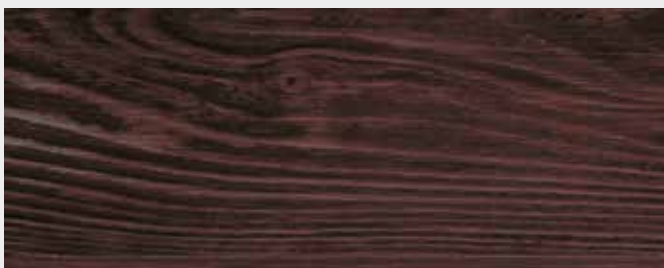
DARK GOLD OAK



DARK WALNUT



MAHOGANY



WENGE



GREY

# CALENDAR 2018

JANUARY						FEBRUARY						MARCH						APRIL						
tydz.	01	02	03	04	05	tydz.	05	06	07	08	09	tydz.	09	10	11	12	13	tydz.	13	14	15	16	17	18
Pn.	<b>1</b>	8	15	22	29	Pn.		5	12	19	26	Pn.		5	12	19	26	Pn.		<b>2</b>	9	16	23	30
Wt.	2	9	16	23	30	Wt.		6	13	20	27	Wt.		6	13	20	27	Wt.		3	10	17	24	
Śr.	3	10	17	24	31	Śr.		7	14	21	28	Śr.		7	14	21	28	Śr.		4	11	18	25	
Cz.	4	11	18	25	Cz.	<b>1</b>	8	15	22	Cz.	<b>1</b>	8	15	22	29	Cz.		5	12	19	26			
Pt.	5	12	19	26	Pt.	2	9	16	23	Pt.	2	9	16	23	30	Pt.		6	13	20	27			
So.	<b>6</b>	13	20	27	So.	3	10	17	24	So.	3	10	17	24	31	So.		7	14	21	28			
Nd.	<b>7</b>	<b>14</b>	<b>21</b>	<b>28</b>	Nd.	<b>4</b>	<b>11</b>	<b>18</b>	<b>25</b>	Nd.	<b>4</b>	<b>11</b>	<b>18</b>	<b>25</b>	Nd.	<b>1</b>	<b>8</b>	<b>15</b>	<b>22</b>	<b>29</b>				

MAY						JUNE						JULY						AUGUST						
tydz.	18	19	20	21	22	tydz.	22	23	24	25	26	tydz.	26	27	28	29	30	31	tydz.	31	32	33	34	35
Pn.		7	14	21	28	Pn.		4	11	18	25	Pn.		2	9	16	23	30	Pn.		6	13	20	27
Wt.	<b>1</b>	8	15	22	29	Wt.		5	12	19	26	Wt.		3	10	17	24	31	Wt.		7	14	21	28
Śr.	2	9	16	23	30	Śr.		6	13	20	27	Śr.		4	11	18	25	Śr.	<b>1</b>	8	<b>15</b>	22	29	
Cz.	<b>3</b>	10	17	24	<b>31</b>	Cz.		7	14	21	28	Cz.		5	12	19	26	Cz.		2	9	16	23	30
Pt.	4	11	18	25	Pt.	<b>1</b>	8	15	22	29	Pt.		6	13	20	27	Pt.		3	10	17	24	31	
So.	5	12	19	26	So.	2	9	16	23	30	So.		7	14	21	28	So.		4	11	18	25		
Nd.	<b>6</b>	<b>13</b>	<b>20</b>	<b>27</b>	Nd.	<b>3</b>	<b>10</b>	<b>17</b>	<b>24</b>	Nd.	<b>1</b>	<b>8</b>	<b>15</b>	<b>22</b>	<b>29</b>	Nd.	<b>5</b>	<b>12</b>	<b>19</b>	<b>26</b>				

SEMPTEMBER						OCTOBER						NOVEMBER						DECEMBER							
tydz.	35	36	37	38	39	tydz.	40	41	42	43	44	tydz.	44	45	46	47	48	tydz.	48	49	50	51	52	01	
Pn.		3	10	17	24	Pn.		1	8	15	22	29	Pn.		5	12	19	26	Pn.		3	10	17	24	31
Wt.		4	11	18	25	Wt.		2	9	16	23	30	Wt.		6	13	20	27	Wt.		4	11	18	<b>25</b>	
Śr.		5	12	19	26	Śr.		3	10	17	24	31	Śr.		7	14	21	28	Śr.		5	12	19	<b>26</b>	
Cz.		6	13	20	27	Cz.		4	11	18	25	Cz.	<b>1</b>	8	15	22	29	Cz.		6	13	20	27		
Pt.		7	14	21	28	Pt.		5	12	19	26	Pt.	<b>2</b>	9	16	23	30	Pt.		7	14	21	28		
So.	<b>1</b>	8	15	22	29	So.		6	13	20	27	So.	<b>3</b>	10	17	24	So.	<b>1</b>	8	15	22	29			
Nd.	<b>2</b>	<b>9</b>	<b>16</b>	<b>23</b>	<b>30</b>	Nd.		<b>7</b>	<b>14</b>	<b>21</b>	<b>28</b>	Nd.	<b>4</b>	<b>11</b>	<b>18</b>	<b>25</b>	Nd.	<b>2</b>	<b>9</b>	<b>16</b>	<b>23</b>	<b>30</b>			

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