



# Product catalogue

LILLE

www.kreisel.pl/en

# The purpose of **FIXIT GRUPPE**

Our philosophy - our leitmotif

# **PRESERVING VALUES** SUSTAINABLY SHAPING THE FUTURE WITH BUILDING MATERIALS.



#### The values of the FIXIT GRUPPE.

Four central values form the foundation of FIXIT GRUPPE. Based on these, we have committed ourselves to sustainable action in all areas and at all levels. Together with the companies of the brands FIXIT, GREUTOL, HASIT, KREISEL, and RÖFIX, we consistently align our business activities accordingly.



#### Satisfied customers and partners.

Our success is inextricably linked to our customers' satisfaction. That is why we do everything we can to maintain their trust in the long term.



#### Top-quality products.

We achieve customer satisfaction with products of the highest quality, relying on decades of experience, technical progress, and environmental friendliness.



#### Motivated employees.

Our employees' competence, commitment, creativity, and integrity are the most important elements of our company's success.



#### Growth together.

We are focused on working economically and efficiently to grow together with our business partners.

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# **Decorative plasters**





Table 1. Properties of decorative plasters	POZTYNK-SZ BR 062 Mineral	AKRYTYNK 010 Acrylic	SILIKATYNK 020 Silicate	SISITYNK 040 Silicate - Silicone	NANOTYNK Silicone 031	SILICONE PLASTER 031	BIOTYNK BIOTYNK 042 Polysilicone
Ease of application	••	••••	•••	••••	••••	••••	••••
Permeability water vapour	••••	•	••••	•••	•••	•••	•••
Moisture removal	•••	٠	•••	•••	•••	•••	•••
Permeability CO2	••••	•	••••	•••	•••	•••	•••
Mechanical strength	•	•••	••	•••	•••	•••	••••
Resistance to dirt	•••	••	••	••	•••	•••	••••
Resistance to algae	•••	• •	•••	•••	•••	•••	
Flexibility	•	•••	••	•••	•••	•••	
Resistance to natural ageing (UV, frost, ozone)	••	•	••	••	•••	•••	••••
Resistance to industrial atmosphere	•	•••	••	•••	•••	•••	••••
Colour palette	•	••••	••	••••	••••	••••	••••

• • • • very good • • • good • • satisfactory • low

In Concession in the

#### Table 2. Consumption and coverage of decorative plasters depending on texture and grain size

	Approximate plaster consumption per 1m <sup>2</sup> and output per 25 kg package		
Туре	Mineral plaster POZTYNK-SZ 062	Decorative plaster: NANOTYNK SILICONE 031	Decorative plasters: AKRYTYNK 010, SILIKATYNK 020, SILICONE PLASTER 031 SISITYNK 040 BIOTYNK 042
Grain size 0,5 mm	-	1,0 kg (25,0 m <sup>2</sup> )	-
Grainy 1,0 mm	2,1 kg (11,9 m²)	1,6 kg (15,6 m <sup>2</sup> )	-
Grainy 1,5 mm	2,5 kg (10,0 m <sup>2</sup> )	2,3 kg (11,0 m <sup>2</sup> )	2,3 kg (11,0 m <sup>2</sup> )
Grainy 2,0 mm	2,9 kg (8,6 m <sup>2</sup> )	3,1 kg (8,0 m <sup>2</sup> )	3,1 kg (8,0 m <sup>2</sup> )
Grainy 3,0 mm	4,3 kg (5,8 m²)	5,0 kg (5,0 m²)	-





- silicone plaster for dark colours
- permanent colours
- UV-resistant, stain-resistant
- flexible, contains reinforcing fibres

Insulation system:	TURBO-SO PROTECT, TURBO-WSO PROTECT, XPS TURBO-SO PROTECT, RTU TURBO-SO PROTECT		
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool		
Grain size:	1,5 mm; 2,0 mm		
Structures:	BR -Grainy		
Consumption:	approx. 2,3 kg/m <sup>2</sup> /BR 1,5 mm		
Coverage:	approx. 11,0 m <sup>2</sup> /bucket/BR 1,5 mm		
Mechanical application:	yes		
Packaging:	25 kg bucket		
On pallet / pallet weight:	33 pcs / 872 kg		



KREISEL

COLOUR PALETTES from page 114

#### BIOTYNK 042 MAX PROTECT





COLOUR PALETTES from page 114

- polysilicone decorative plaster
- innovative combination of silicone resins and polyurethane
- BIO-PRUF system to reduce the risk of biological growth
- $\boldsymbol{\cdot}$  high colour fastness and mechanical resistance, for dark colours

On pallet / pallet weight:	33 pcs / 872 kg
Packaging:	25 kg bucket
Mechanical application:	yes
Coverage:	approx. 11,0 m <sup>2</sup> /bucket/BR 1,5 mm
Consumption:	approx. 2,3 kg/m <sup>2</sup> /BR 1,5 mm
Structures:	BR -Grainy
Grain size:	1,5 mm; 2,0 mm
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool
Insulation system:	TURBO-MAX PROTECT, TURBO-W MAX PROTECT, XPS TURBO-MAX PROTECT, RTU TURBO-MAX PROTECT



## NANOTYNK 031 SILIKON Protect

- silicone decorative plaster
  - UV-resistant, long-lasting and intense colour
  - self-cleaning properties
  - highly flexible

On pallet / pallet weight:	33 pcs / 872 kg
Packaging:	25 kg bucket
Mechanical application:	yes
Coverage:	approx. 11,0 m <sup>2</sup> /bucket/BR 1,5 mm
Consumption:	approx. 2,3 kg/m <sup>2</sup> /BR 1,5 mm
Structures:	BR -Grainy
Grain size:	0,5 mm; 1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool
Insulation system:	TURBO-SO PROTECT, TURBO-WSO PROTECT, XPS TURBO-SO PROTECT, RTU TURBO-SO PROTECT





#### **SISITYNK 040**



- silicate and silicone decorative plaster
- resistant to biological growth and dirt
- water- and frost-resistant

vapour-permeable

- vapour-permeable			
Insulation system:	TURBO-SISI, TURBO-WSISI, XPS TURBO-SISI, RTU TURBO-SISI		
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool		
Grain size:	1,5 mm; 2,0 mm		
Structures:	BR - Grainy		
Consumption:	approx. 2,3 kg/m <sup>2</sup> /BR 1,5 mm		
Coverage:	approx. 11,0 m <sup>2</sup> /bucket/BR 1,5 mm		
Mechanical application:	yes		
Packaging:	25 kg bucket		
On pallet / pallet weight:	33 pcs / 872 kg		



COLOUR PALETTES from page 114

#### SILIKATYNK 020



- silicate decorative plaster
- highly vapour-permeable, ideal for mineral wool insulation systems
- resistant to biological growth
- water- and frost-resistant

Insulation system:	TURBO-SA, TURBO-WSA, XPS TURBO-SA, RTU TURBO-SA
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool
Grain size:	1,5 mm; 2,0 mm
Structures:	BR - Grainy
Consumption:	approx. 2,3 kg/m²/BR 1,5 mm
Coverage:	approx. 11,0 m <sup>2</sup> /bucket/BR 1,5 mm
Mechanical application:	yes
Packaging:	25 kg bucket
On pallet / pallet weight:	33 pcs / 872 kg



COLOUR PALETTES from page 114

## **AKRYTYNK 010**



- acrylic decorative plaster
- coloured finish for thermal insulation systems
- flexible and mechanically resistant
- water- and frost-resistant

Insulation system:	TURBO-S, XPS TURBO-S, RTU TURBO-S
Type of thermal insulation:	white and graphite polystyrene, XPS
Grain size:	1,5 mm; 2,0 mm
Structures:	BR - Grainy
Consumption:	approx. 2,3 kg/m <sup>2</sup> /BR 1,5 mm
Coverage:	approx. 11,0 m <sup>2</sup> /bucket/BR 1,5 mm
Mechanical application:	yes
Packaging:	25 kg bucket
On pallet / pallet weight:	33 pcs / 872 kg



DECORATIVE PLASTERS



#### **POZTYNK-SZ BR 062**



- white mineral decorative plaster (lamb texture)
  Lime and cement based plaster, ideal for mineral wool
- highly vapour-permeable

• UV-resistant

Insulation system:	TURBO, TURBO-W, XPS TURBO, RTU TURBO	
Type of thermal insulation:	white and graphite polystyrene, XPS, minera wool	
Grain size:	1,0 mm; 1,5 mm; 2,0 mm; 3,0 mm	
Structures:	BR - Grainy	
Consumption:	approx. 2,9 kg/m²/BR 2,0 mm	
Coverage:	approx. 8,6 m <sup>2</sup> /bag/BR 2,0 mm	
Mechanical application:	yes	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



#### **ARCHITECTURAL CONCRETE 055**



COLOUR PALETTES from page 114

EXAMPLE STRUCTURES: page 109

- concrete or stone imitation plaster
- easy to use, malleable, available in a wide range of colours
- mechanically resistant, impact resistant
- for indoor and outdoor use

Insulation system:	yes
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool
Grain size:	0,5 mm
Structures:	according to the method chosen
Consumption:	from approx. 1,2 kg/m <sup>2</sup>
Coverage:	up to approx. 12,5 m²/bucket
Mechanical application:	not
Layer thickness:	1 - 3 mm
Packaging:	15 kg bucket
On pallet / pallet weight:	33 pcs / 525 kg



#### MOSAIC PLASTER AND DECORATIVE ELEMENTS

#### DIY KIT:

# MOZATYNK-S 051 - MOSAIC PLASTER MOZATYNK-S 051 NATURAL - DECORATIVE SAND

- for preparation at the place of purchase or construction site on your own
- prepared by mixing 4 packages of aggregate and resin in a bucket
- it is also possible to add mica as additional decoration

#### **BASE I**



• resin.	acrvlic	binder -	compone	ent of the	DIY kit
	aciyne	Dillaci	compon		

• to be made by yourself at the point of purchase or on site

Thermal insulation system:	yes
Thermal insulation type:	polystyrene
Consumption:	1 bucket - 1 finished product
Packaging:	4.3 kg bucket
On pallet / pallet weight:	48 pcs / 222 kg



KREISEL

RANGES OF COLOUR

on pages 105-108

#### BASE II - MOZATYNK-S 051



 $\boldsymbol{\cdot}$  to be made by yourself at the point of purchase or on site

In carton / pallet weight:	10 pcs / 30 kg
Packaging:	3 kg bag / 10 pcs per carton
Granulation:	1,2 mm; 1,8 mm
Consumption:	4 bags - 1 finished product
Thermal insulation type:	polystyrene
Thermal insulation system:	yes



#### BASE II - MOZATYNK-S 051 NATURAL

- coloured quartz aggregate packed in bags part of a set
- to be made by yourself at the point of purchase or on site



Thermal insulation system:	yes
Thermal insulation type:	polystyrene
Consumption:	4 bags - 1 finished product
Granulation:	up to 1.2 mm
Packaging:	2.5 kg bag / 10 pcs per carton
In carton / pallet weight:	10 pcs / 25 kg



**MICA** 



• decorat	ive l	MICA	flakes	-	part of	the set	

to be made by yourself at the point of purchase or on site

Thermal insulation system:	yes
Thermal insulation type:	polystyrene
Consumption:	1 container - 1 finished product
Colours available:	black, silver
Packaging:	0.25 kg bucket / 12 pcs per carton
In carton / pallet weight:	12 pcs / 3 kg





## LAZUR ACRYLIC 1003



- coloured imitation plank finish
- on finished panels and moulded boards
- resistant to dirt and fading
- imitates the natural colour of wood

Drying time:	12 hours	
Water resistance:	> 24 hours	
Consumption:	approx. 0,15 L/m <sup>2</sup>	
Maximum capacity:	up to 16 m <sup>2</sup> / 2,5 L	up to 32 m <sup>2</sup> / 5 L
Packaging:	2,5 L bucket	5 L bucket
On pallet / pallet weight:	80 pcs / 286 kg	80 pcs / 545 kg



COLOUR PALETTES page 110

#### ELASTIC FACADE BOARD



ROLTYNK MINERALNY TYNK DEKORACYJNY

- ready panels imitating a board
- low thickness
- mesh-reinforced
- easy to stick and durable

Thickness:	2 mm
Width:	128 mm
Length:	2000 mm
Area of one board:	0,26 m²
Assembly:	• READY-TO-USE TILE ADHESIVE 111 • EXPERT 4
Packaging:	carton / 6,24 m <sup>2</sup> of product
Number of boards/carton weight:	24 pcs / 13,5 kg



#### **ROLTYNK 070 MINERAL PLASTER**

- mineral decorative plaster for modelled structures
- Ideal for imitation plank impressions, stucco, smooth surfaces, etc.
  - for painting with paints and varnishes
  - white, water- and frost-resistant

white, water and noot replant		
Insulation system:	yes	
Type of thermal insulation:	white and graphite polystyrene, XPS, mineral wool	
Grain size:	0,5 mm	
Structures:	according to the method chosen	
Consumption:	approx. 2,5 kg/m <sup>2</sup>	
Coverage:	approx. 10,0 m <sup>2</sup> /bag	
Mechanical application:	not	
Layer thickness:	2 - 5 mm	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	





## CAMAVO BRICK STENCIL



- plastic stencil for brick imitation
- for creating brick texture in decorative plasters
- durable, water-resistant plastic with strong adhesive

strong adhesive

Type of plastering:	ROLTYNK 070     NANOTYNK 031     ARCHITECTURAL CONCRETE 055
Length:	1000 mm
Width:	81 mm
Joint width	10 mm
Dimensions of imitation brick	240/ 71 mm
Area of 1 piece	0,081 m <sup>2</sup>
Quantity per 1m <sup>2</sup>	12,35 pcs

#### CAMAVO CLS STRIP

- flexible self-adhesive strip
- facilitates the application of decorative plasters
- ideal for fair-faced concrete and imitation planks
- enables a perfect joint

Type of plastering:	ROLTYNK 070     ARCHITECTURAL CONCRETE 055
Plastic:	PCV
Length:	1000 mm
Width:	5 / 7 / 9 / 10 mm
Thickness:	2 / 3 mm
Packaging:	cardboard
Quantity per carton:	50 lm



#### CAMAVO MATRIX



- for the imprinting of wood patterns in plaster
- highly flexible
- resistant to stretching and long-term operation
- high durability

Type of imitation:	Width:	Length:
Pine SO2	170 mm	2000 mm
Spruce SW1	190 mm	2000 mm
Larch MO3	210 mm	2000 mm
Ash JE4	230 mm	2000 mm
Packaging:	1 рс	





#### ANTI-FROST 1000

•	setting	accelerator	for	paints	and	finished	plasters

- allows safe application of products at temperatures >0°C
- early resistance to subzero temperatures
- ideal for autumn and winter work, does not alter the colour of paints and plasters

In carton / carton weight:	96 pcs / 12 kg	12 months
Packaging:	125 ml container	
Consumption:	1 packet for 1 bucket of plaster 25 kg or paints 15 L	
Bonding time of the product with the additive:	approx. 8 hours (depending on external conditions	
Product type:	dispersion plasters and paints: • acrylic • silicate • silicone, • silicate-silicone	

Table 3. Properties and application range of protective and cleaning agents	SEPTOBUD 1008	HYDROMUR-W 1010
Purpose	washing out aggression biological, disinfection	impregnation
Base	water	water
рН	approx. 3,0	approx. 7,0
Colour	clear	clear
	PLACES OF APPLICATION	
Ceramic and clinker tiles	•	•
Stone elements	•	•
Plasters and paints	•	•
Tiles	•	•
Steel	•	•
Precious metals	•	•
Plastics	•	•
Sanitary ceramics	•	•

solution recommended • solution not recommended



#### HYDROMUR-W 1010



- silicone impregnate
- water repellent, protects against the ingress of rainwater
- ideal for impregnation of parts to be renovated
- hydrophobic, vapour-permeable, water- and frost-resistant

Type of impregnated elements:	Facades, mineral and cement-lime plaster, concrete, natural stone						
Colour:	clear						
Drying time:	12 to 24 hours						
Fully resistant to external conditions:	48 hours						
Consumption:	0,2 - 0,7 L/ m <sup>2</sup>						
Packaging:	1 L bottle	5 L canister					
In carton/carton weight:	12 pcs / 13 kg	On pallet: 120 units. Pallet weight: 642 kg					



#### SEPTOBUD 1008



- biocide
- combats microorganisms: algae, mould
- ideal for facades with and without insulation, for roofs
- effective, easy to apply

Type of cleaned elements:	decorative plasters, paints, roofs							
Colour:	clear	clear						
рН	approx. 3,0							
Consumption:	0,15 - 0,20 L/ m <sup>2</sup>							
Packaging:	1 L bottle	5 L canister						
In a box / carton weight:	12 pcs / 13 kg	On the pallet: 120 pcs Pallet weight: 642 kg						



# Wall insulation systems



Table 4. Composition of wall insulation systems		TURBO	TURBO-S	TURBO-SA	TURBO Z-SA	TURBO-SISI	TURBO-SO PROTECT	TURBO-MAX PROTECT
POLYSTYRENE FOAM		•	•	•	•	•	•	•
MINERAL WOOL								
XPS								
LEPSTYR 210	p.23	•	•	•		•	•	•
LEPSTYR 210 ELASTIC	p.23	•	•	•		•	•	•
LEPSTYR-Z 211	p.23				•			
LEPSTYR-W 230	p.24							
STYRLEP 220	p.24	•	•	٠		•	٠	•
STYRLEP 224 WHITE	p.22	•	•	•		•	•	•
STYRLEP 220 ELASTIC	p.24	•	•	٠		•	٠	•
STYRLEP-Z 221	p.25				•			
STYRLEP-B 225	p.25	•	•	•		•	•	•
STYRLEP-W 240	p.25							
STYRLEP RTU 251	p.26							
TYNKOLIT-T 330	p.27	•	•					
TYNKOLIT-U 340	p.27	•	•	•		•	•	•
POZTYNK-SZ 062 BR	p.12	•						
AKRYTYNK 010	p.11		•					
SILIKATYNK 020	p.11			•				
NANOTYNK 031	p.10						•	
SILICONE PLASTER 031	p.10						•	
SISITYNK 040	p.11					•		
BIOTYNK 042	p.10							•
STRUCTURAL PAINT 071	p.32							

Table 4. Composition of wall insulation systems		TURBO-W	TURBOWSA	TURBO- -WSO PROTECT	TURBO-W SISI	TURBO-W MAX PROTECT	XPS TURBO	XPS TURBO-S	XPS TURBO-SA
POLYSTYRENE FOAM									
MINERAL WOOL		•	•	•	•	•			
XPS							•	•	•
LEPSTYR 210	p.23								
LEPSTYR 210 ELASTIC	p.23								
LEPSTYR-Z 211	p.23								
LEPSTYR-W 230	p.24	٠	٠	٠	•	•			
STYRLEP 220	p.24								
STYRLEP 224 WHITE	p.22						•	•	•
STYRLEP 220 ELASTIC	p.24						٠	٠	•
STYRLEP-Z 221	p.25								
STYRLEP-B 225	p.25	•	٠	٠	•	•			
STYRLEP-W 240	p.25	•	•	•	•	•			
STYRLEP RTU 251	p.26								
TYNKOLIT-T 330	p.27	•					•	•	
TYNKOLIT-U 340	p.27	•	•	•	•	•	•	•	•
POZTYNK-SZ 062 BR	p.12	•					•		
AKRYTYNK 010	p.11							٠	
SILIKATYNK 020	p.11		•						•
NANOTYNK 031	p.10			•					
SILICONE PLASTER 031	p.10			•					
SISITYNK 040	p.11				•				
BIOTYNK 042	p.10					•			
STRUCTURAL PAINT 071	p.32								

XPS TURBO-SISI	XPS TURBO-SO PROTECT	XPS TURBO-MAX PROTECT	RTU TURBO	RTU TURBO-S	RTU TURBO-SA	RTU TURBO-SISI	RTU TURBO-SO PROTECT	RTU TURBO-MAX PROTECT	TURBO-WG
			•	٠	٠	٠	•	٠	
									•
•	•	•							
									•
•	•	•							
•	•	•							
			•	•	•	•	•	•	
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									•



#### **STYRLEP 224 WHITE**





- white adhesive and reinforcing mortar, fine-grained
- designed for white and graphite polystyrene foam
- vapour-permeable, flexible, contains reinforcing fibres
- very good working properties

Colour:	white	
Grain size:	up to 0,5 mm	
Adhesion to concrete:	≥ 0,25 MPa	0,11
Adhesion to polystyrene foam:	≥ 0,08 MPa	
Layer thickness:	2 - 5 mm	
Consumption:	approx. 4,3 kg/m <sup>2</sup>	
Coverage:	5,5 m²/ package	
Bonding time:	approx. 24-48 h	+5°C
Ready for further work	after 48 h	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	12 months

Table 5. Application range of adhesive mortars for thermal insulation systems	LEPSTYR 210	LEPSTYR 210 ELASTIC	LEPSTYR-Z 211	LEPSTYR-W 230
Offer	STANDARD	PREMIUM	WINTER	WOOL
White polystyrene	•	•	•	•
Graphite polystyrene	•	۲	•	•
Mineral wool	•	•	•	•
XPS	•	•	•	•

recommended • not recommended

			NEW				
Table 6. Application range of adhesive mortars							ARE STOL
for thermal	STYRLEP	STYRLEP	STYRLEP	STYRLEP-Z	STYRLEP-	STYRLEP-B	STYRLEP
insulation systems	220	220 ELASTIC	224 WHITE	221	-W 240	225	RTU 251
Offer	STANDARD	PREMIUM	PREMIUM	WINTER	WOOL	PREMIUM UNIVERSAL	READY MASS
White polystyrene	•	٠	•	•	•	٠	•
Graphite polystyrene	•	٠	•	•	•	٠	•
Mineral wool	•	•	•	•	•	۲	•
XPS		٠	•	•	•	٠	•

recommended • not recommended



6,31

? month

## **LEPSTYR 210 ELASTIC**



- adhesive mortar for graphite and white polystyrene foam
- for fixing all types of EPS polystyrene (white, graphite)
- good working properties
- high mechanical strength

Colour:	grey	
Grain size:	up to 0,5 mm	
Adhesion to concrete:	≥ 0,25 MPa	
Adhesion to polystyrene foam:	≥ 0,08 MPa	
Layer thickness:	2 - 15 mm	
Consumption:	approx. 4,5 kg/m <sup>2</sup>	
Coverage:	5,5 m²/ package	
Setting time:	approx. 48 h	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	





- adhesive mortar for polystyrene foam
- high adhesion to the substrate and polystyrene foam
- easy to apply, for all mineral substrates
- high mechanical strength

Colour:	grey
Grain size:	up to 0,5 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to polystyrene foam:	≥ 0,08 MPa
Layer thickness:	2 - 15 mm
Consumption:	approx. 4,5 kg/m²
Coverage:	5,5 m²/ package
Setting time:	approx. 48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### LEPSTYR-Z 211

21

LEPSTYR-Z

- winter adhesive mortar for graphite and white polystyrene foam
- for operation at reduced temperatures, rapid strength gain
  - accelerated resistance to low temperatures
  - high adhesion to all mineral substrates

5	
Colour:	grey
Grain size:	up to 0,5 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to polystyrene foam:	≥ 0,08 MPa
Layer thickness:	2 - 15 mm
Consumption:	approx. 4,5 kg/m <sup>2</sup>
Coverage:	5,5 m²/ package
Setting time:	24-48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg





#### LEPSTYR-W 230



- adhesive mortar for mineral wool
- vapour-permeable, frost- and water-resistant
- for garage thermal insulation systems
- high adhesion to mineral substrates (brick, concrete, hollow bricks)

Colour:	grey
Grain size:	up to 0,5 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to wool:	≥ 0,08 MPa
Layer thickness:	2 - 15 mm
Consumption:	approx. 5,0 kg/m <sup>2</sup>
Coverage:	5,0 m²/ package
Setting time:	24-48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### **STYRLEP 220 ELASTIC**



- adhesive and reinforcing mortar for all types of polystyrene foam
- suitable for white and graphite polystyrene as well as for XPS
- contains a high proportion of reinforcing fibres, vapour-permeable
  very good working properties, flexible, water and frost resistant

Colour:	grey
Grain size:	up to 0,5 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to polystyrene foam:	≥ 0,08 MPa
Layer thickness:	3 - 5 mm
Consumption:	approx. 4,5 kg/m <sup>2</sup>
Coverage:	5,5 m²/ package
Setting time:	24-48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### **STYRLEP 220**



- adhesive and reinforcing mortar for polystyrene foam
- for bonding and embedding mesh in insulation systems based on white EPS polystyrene
  - for concrete, bricks, hollow bricks, high adhesion

Colour:	grey
Grain size:	up to 0,5 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to polystyrene foam:	≥ 0,08 MPa
Layer thickness:	3 - 5 mm
Consumption:	approx. 4,5 kg/m²
Coverage:	5,5 m²/ package
Setting time:	24 - 48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg





# WALL INSULATION SYSTEMS



- universal adhesive mortar for polystyrene and mineral wool
- vapour-permeable, frost- and water-resistant
- high content of reinforcing fibres, fracture-resistant
- highly hydrophobic, no priming is required for decorative plasters

Colour:	white
Grain size:	up to 1,0 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to polystyrene/wool:	≥ 0,08 MPa
Layer thickness:	3 - 6 mm
Consumption:	approx. 5,5 kg/m²
Coverage:	4,5 m²/ package
Setting time:	24 - 48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### **STYRLEP-W 240**



- adhesive and reinforcing mortar for mineral wool
- vapour-permeable, frost- and water-resistant
- high content of reinforcing fibres, fracture-resistant
- highly hydrophobic

5 5 5 1	
Colour:	grey
Grain size:	up to 1,0 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to wool:	≥ 0,08 MPa
Layer thickness:	3 - 6 mm
Consumption:	approx. 5,5 kg/m <sup>2</sup>
Coverage:	4,5 m²/ package
Setting time:	24 - 48 h
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg
	ч. 



## STYRLEP-Z 221

STYRLEP-Z ZIMOWY E DO SIATKI

- winter adhesive mortar for graphite and white polystyrene foam
- for operation at reduced air temperatures
- rapid strength development
- for white and graphite polystyrene foam

51 1 5 5		
Colour:	grey	
Grain size:	up to 0,5 mm	
Adhesion to concrete:	≥ 0,25 MPa	
Adhesion to polystyrene foam:	≥ 0,08 MPa	
Layer thickness:	3 - 5 mm	
Consumption:	approx. 4,5 kg/m²	
Coverage:	5,5 m²/ package	
Setting time:	24 - 48 h	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	





#### **STYRLEP RTU 251**



- ready-to-use adhesive for polystyrene and reinforcement layer, EPS, XPS
- high mechanical strength and adhesion
- ideal for wood-based materials
- flexible and cement-free, does not cause efflorescence or discoloration

Colour:	white
Grain size:	up to 0,5 mm
Adhesion to concrete:	≥ 0,25 MPa
Adhesion to polystyrene foam:	≥ 0,08 MPa
Adhesion to XPS:	≥ 0,08 MPa
Layer thickness:	2 - 5 mm
Consumption:	approx. 4,0 kg/m <sup>2</sup>
Coverage:	5 - 7 m²/ pack
Setting time:	approx. 24 h
Packaging:	25 kg bucket
On pallet / pallet weight:	33 pcs / 855 kg



Table 7. Uses of primers under plasters	TYNKOLIT-T 330	TYNKOLIT-U 340
POZTYNK-SZ 062 BR	•	•
ROLTYNK 070	•	•
AKRYTYNK 010	•	•
SILKATYNK 020	•	•
NANOTYNK 031	•	•
SILICONE PLASTER 031	•	•
SISITYNK 040	•	•
BIOTYNK 042	•	•
MOZATYNK-S 051	•	•
MINERAL PAINT 071	•	•

recommended solution



## **TYNKOLIT-U 340**



- universal primer for thin-layer and mosaic plasters
- contains quartz aggregate, facilitates work
- very good covering properties, increases adhesion of plasters

• water- and frost-resistant

Types of plaster:	mineral, acrylic, silicone, silicate, silicate-silicone		
Colour:	white or stained	white or stained	
Drying time:	4 h	4 h	
Further work:	> 24 h		
Consumption:	0,2- 0,3 kg/m²		
Coverage:	up to 100 m <sup>2</sup> / 20 kg		
Packaging:	7 kg bucket	20 kg bucket	
On pallet / pallet weight:	80 pcs / 604 kg	33 pcs / 740 kg	



#### **TYNKOLIT-T 330**



- primer for decorative plaster
- contains quartz aggregate, facilitates work
- increases the adhesion of plasters
- water- and frost-resistant

Types of plaster:	mineral, acrylic, mosaic	
Colour:	white or stained	
Drying time:	4 h	
Further work:	> 24 h	
Consumption:	0,2- 0,3 kg/m²	
Coverage:	up to 100 m <sup>2</sup> / 20 kg	
Packaging:	7 kg bucket	20 kg bucket
On pallet / pallet weight:	80 pcs / 604 kg	33 pcs / 740 kg



#### **REINFORCING MESH**

- glass fibre reinforcing mesh for ETICS
- alkali-resistant
- for mineral wool and polystyrene foam
- made of glass fibre

•	
Specific gravity:	<ul> <li>145 g/m<sup>2</sup></li> <li>160 g/m<sup>2</sup></li> </ul>
Mesh size:	approx. 4 x 4 mm
Roll width:	1,1 m for 145 g/m <sup>2</sup> ; 1 m for 160 g/m <sup>2</sup>
Dimension:	55 m², 145 g/m² 50 m², 160 g/m²









PAINTS

Table 8. Properties of exterior paints	ACRYLIC PAINT 001	FARBA Illiatory SILICATE PAINT 002	NEW FARBA SILICONE PAINT 003	FARBAGE KREISTE SISI PAINT 004	RARBA KREISSE NANOTECH PAINT 006	BIO-PAINT 008
Coverage	••	••	••	••	••	••
Coverage quality	•••	•••	•••	•••	•••	•••
UV resistance	••	••	•••	••	•••	•••
Resistance to washing	••	••	•••	••	•••	•••
Resistance to scrubbing	•••	••	•••	•	•••	•••
Vapour permeability	•	•••	•••	•	•••	•••
Weather resistance	••	•••	•••	••	•••	•••
Resistance to biological growth	٠	••	•••	••	•••	•••
Resistance to dirt	•	••	•••	••	•••	•••
Frost resistance	•••	•••	•••	•••	•••	•••
Waterproof	•••	•••	•••	•••	•••	•••
For indoor use	YES	YES	YES	YES	YES	YES
For outdoor use	YES	YES	YES	YES	YES	YES

• • • high • • good • poor

	NEW				
Table 9. Properties of interior paints	FARBA LATEX-ACRYLIC PAINT 017	CERAMIC PAINT 090	ANTI-REFLEX PAINT 080	LATEX PAINT 011	FARBA KREISE PROFESSIONAL PAINT 013
Coverage quality	• • •			•••	• •
Coverage	• • •	• • •	• •	• • •	• •
Dry abrasion resistance	• • •		• • •	• • •	• •
Wet abrasion resistance	• •	• • •	• • •	• • •	•
Resistance to scrubbing	• •		• • •	• •	•
Possibility of colouring	•	• • •	•	•••	•
Sprayable	•	• •	•	•	

high



#### **SILICONE PAINT 003**





**COLOUR PALETTES** from page 114

#### **BIO-PAINT 008**



- ideal for dark and intense colours
- COLD PIGMENTS can be dyed
- self-cleaning properties, resistant to biological growth

Substrate type:	silicone, acrylic, silicate, cement-lime renovation, mineral plasters, plasterboards, plasterboards		
Diffusion resistance coefficient $\mu$ :	≤ 920		
Coating drying time:	approximately 12 ho	ours	
Approximate consumption per layer:	0,15 - 0,30 L/m²		
Mechanical application:	yes		
Water resistance / frost resistance:	yes / yes		
Maximum coverage:	up to 33 m <sup>2</sup> / 5 L	up to 100 m <sup>2</sup> / 15 L	
Packaging:	5 L bucket	15 L bucket	
On pallet / pallet weight:	80 pcs / 632 kg	33 pcs / 775 kg	



- polysilicone facade paint resistant to biological growth
- BIO-PRUF system, ideal for areas exposed to biological contamination
  - highly hydrophobic, self-cleaning
  - vapour-permeable, easy to clean

nanosilicone facade paint

• flexible, highly UV-resistant resistant to mould, algae

Diffusion resistance coefficient µ:

Water resistance / frost resistance:

Approximate consumption per

Substrate type:

layer:

Coating drying time:

Mechanical application:

On pallet / pallet weight:

Maximum coverage:

Packaging:

self-cleaning properties, excellent coverage

Substrate type:	plasters in thermal insulation systems, cement-lime, lime, mineral, silicone and silicate plasters, plasterboards	
Diffusion resistance coefficient $\mu$ :	≤ 1630	
Coating drying time:	approximately 12 ho	ours
Approximate consumption per layer:	0,15 - 0,30 L/m²	
Mechanical application:	yes	
Water resistance / frost resistance:	yes / yes	
Maximum coverage:	up to 33 m <sup>2</sup> / 5 L up to 100 m <sup>2</sup> / 1	
Packaging:	5 L bucket	15 L bucket
On pallet / pallet weight:	80 pcs / 632 kg	33 pcs / 775 kg

≤ 1630

yes

yes / yes

5 L bucket

plasters in thermal insulation systems,

up to 100 m<sup>2</sup>/ 15 L

15 L bucket

33 pcs / 775 kg

cement-lime, lime, mineral, silicone

and silicate plasters, plasterboards

approximately 12 hours

0,15 - 0,30 L/m<sup>2</sup>

up to 33 m<sup>2</sup>/ 5 L

80 pcs / 632 kg



.25

24 montl

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#### NANOTECH PAINT 006







#### SISI PAINT 004



- silicate and silicone facade paint
- stain-resistant
- washable and opaque
- vapour-permeable

Substrate type:	Cement-lime plasters, renovation plasters, renderings, mineral plasters, plasterboards, plasters in thermal insu- lation systems		
Diffusion resistance coefficient $\mu$ :	≤ 1450		
Coating drying time:	approximately 12 hours		
Approximate consumption per layer:	0,15 - 0,30 L/m²		
Mechanical application:	yes		
Water resistance / frost resistance:	yes / yes		
Maximum coverage:	up to 33 m <sup>2</sup> / 5 L	up to 100 m <sup>2</sup> / 15 L	
Packaging:	5 L bucket	15 L bucket	
On pallet / pallet weight:	80 pcs / 632 kg	33 pcs / 775 kg	



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#### SILICATE PAINT 002



- silicate facade paint for mineral substrates
- vapour-permeable, environmentally friendly
- bonds perfectly to the substrate
- resistant to biological growth

very good covering qualityflexible, with low water absorption

Diffusion resistance coefficient µ:

Approximate consumption per

Water resistance / frost resistance:

resistant to scrubbing

Substrate type:

layer:

Coating drying time:

Mechanical application:

On pallet / pallet weight:

Maximum coverage:

Packaging:

Substrate type:	Mineral plasters, silicate plasters, ce- ment-lime plasters, renovation plasters	
Absorption coefficient surface	< 0,46 kg/(m²/h)	
Coating drying time:	approximately 12 ho	ours
Approximate consumption per layer:	0,15 - 0,30 L/m²	
Mechanical application:	yes	
Water resistance / frost resistance:	yes / yes	
Maximum coverage:	up to 33 m <sup>2</sup> / 5 L up to 100 m <sup>2</sup> /	
Packaging:	5 L bucket	15 L bucket
On pallet / pallet weight:	80 pcs / 632 kg	33 pcs / 775 kg

cement-lime, mineral plasters,

insulation systems

0,15 - 0,30 L/m<sup>2</sup>

up to 33 m<sup>2</sup>/ 5 L

80 pcs / 632 kg

approximately 12 hours

≤ 13000

yes

yes / yes

5 L bucket

plasterboards, plasters in thermal

up to 100 m<sup>2</sup>/ 15 L

15 L bucket

33 pcs / 775 kg



COLOUR PALETTES from page 114

#### ACRYLIC PAINT 001 • facade paint for traditional substrates





#### **STRUCTURAL PAINT 071**



- mineral paint for garage systems
- for machine application, decorative coating
- highly vapour-permeable

good grip

5000 5119	
Substrate type:	mineral wool in garage systems
Bulk density:	1,2 g/cm <sup>3</sup>
Grain size:	1,0 mm
Approximate consumption per layer:	1,3 - 3,0 kg/m <sup>2</sup>
Maximum coverage:	up to 19 m <sup>2</sup> / bag 25 kg
Mechanical application:	yes
Water resistance / frost resistance:	yes / yes
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### LATEX-ACRYLIC PAINT 017

- matt, highly resistant to scrubbing
- excellent coverage, easy to wash
- for residential and public buildings
- difficult to soil, does not drip

· · ·	
Substrate type:	lime-cement plaster, gypsum plaster, plasterboard, plasterboard, old paint layers
Wet scrub resistance:	class 1
Coating drying time:	approximately 2 hours
Approximate consumption:	approx. 0,08 L/m <sup>2</sup> (per coat)
Minimum number of layers:	2
Mechanical/ manual application:	yes / yes
Packaging:	10 L bucket
On pallet / pallet weight:	33 pcs / 541 kg



#### **CERAMIC PAINT 090**



2.57

- matt, resistant to washing and scrubbing
- highly mechanically resistant, high resistance to washing
- resistant to detergents and many stains: coffee, juice
- hypoallergenic, approved by the National Institute of Hygiene, application-friendly

Substrate type:	lime-cement plaster, gypsum plaster, plasterboard and ready-mixed plaster, plasterboard, old paint coating
Wet scrub resistance:	class 1
Coating drying time:	approximately 2 hours
Approximate consumption:	approx. 0,1 L/m <sup>2</sup> (per coat)
Minimum number of layers:	2
Mechanical / manual application:	yes / yes
Packaging:	2.5 L bucket
On pallet / pallet weight:	80 pcs / 340 kg



24 month

+5°



PAINTS

NEW

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## **ANTI-REFLEX PAINT 080**



- deep matt, scrub-resistant
- uniform matt, regardless of the angle of incidence of light
- optically compensates for substrate imperfections
- excellent coverage, high resistance to washing

Substrate type:	lime-cement plaster, gypsum plaster, plasterboard, plasterboard, old paint coating		
Wet scrub resistance:	class 1		
Coating drying time:	approximately 2 hours		
Approximate consumption:	approx. 0,09 L/m <sup>2</sup> (per coat)		
Minimum number of layers:	2		
Mechanical / manual application:	yes / yes		
Packaging:	2,5 L bucket	10 L bucket	
On pallet / pallet weight:	80 pcs / 340 kg	33 pcs / 541 kg	



#### LATEX PAINT 011



- matt, highly resistant to scrubbing
- excellent coverage, easy to wash
- for residential and public buildings
- difficult to soil, does not drip

Substrate type:	lime-cement plaster, gypsum plaster, plasterboard, plasterboard, old paint layers		
Wet scrub resistance:	class 1		
Coating drying time:	approximately 2 hours		
Approximate consumption:	approx. 0,08 L/m <sup>2</sup> (per coat)		
Minimum number of layers:	2		
Mechanical / manual application:	yes / yes		
Packaging:	2,5 L bucket	5 L bucket	10 L bucket
On pallet / pallet weight:	80 pcs / 340 kg	80 pcs / 632 kg	33 pcs / 541 kg





+5°C

COLOUR PALETTES from page 114

#### **PROFESSIONAL PAINT 013**



- paint for spray application
- suitable for paint sprayers and large surface areas
- good coverage and long-lasting whiteness
- vapour-permeable

Substrate type:	lime-cement plaster, gypsum plaster, plasterboard, plasterboard
Wet scrub resistance:	class 3
Coating drying time:	approximately 6 hours
Approximate consumption:	approx. 0,1 L/m <sup>2</sup> (per coat)
Mechanical / manual application:	yes / no
Maximum coverage:	up to 180 m <sup>2</sup> / 18 L
Packaging:	18 L bucket
On pallet / pallet weight:	33 pcs / 880 kg



# **Products for tiles**





#### Table 10. Application range of adhesives for tiles

	EXPERT 8 GEL ADHESIVE	EXPERT 1	EXPERT 2	EXPERT 2 WHITE	EXPERT 3	EXPERT 4	READY-TO-USE TILE ADHESIVE 111
Adhesive class	C2TE	C1T	C2TE	C2TE	C2TE S1	C2TE S2	D2E
Bathrooms and kitchens	••	•	••	••	••	••	••
Terraces and balconies	•	•	•	•	••	••	•
Plasters, cement screeds	• •	•	••	••	••	••	••
Plasterboard	•	•	•	•	••	••	••
Terrazzo, old tiles, oil varnishes	•	•	•	•	••	••	•
Underfloor heating, wall heating	••	•	••	••	••	••	••
Facades, insulation systems	•	•	•	•	••	••	••
OSB, particle board	•	•	•	•	•	••	••

 $\bullet$   $\bullet$  best solution  $~\bullet$  acceptable solution  $~\bullet$  not recommended solution



#### **EXPERT 8 GEL ADHESIVE**





- flexible adhesive for all types of tiles, class C2TE
- fine grain, with reinforcing fibres
- very good flow, lighter operation
- for balconies, terraces, swimming pools, facades

On pallet / pallet weight:	48 pcs / 1230 kg
Packaging:	25 kg bag
Average consumption per 1 m <sup>2</sup> :	4,5 kg
Open time:	up to 30 minutes
Grouting:	after min. 48 h
Walkable:	after min. 24 h
Layer thickness:	2 - 15 mm
Tile type:	ceramic, terracotta, clinker, stoneware, concrete
Substrate type:	plaster, screed, underfloor heating, concrete, plasterboard, unfinished substrates, old tiles, sealing mortar, old tiles



#### **EXPERT 1 Frost-resistant adhesive for tiles**



EXPERT 2

ELASTYCZNY

- C1T class tile
- very good grip
- thixotropic, with limited run-off
- waterproof, frost resistant

Substrate type:	cement-lime plaster, gypsum plaster, cement screeds, concrete, plasterboard
Tile type:	ceramic
Layer thickness:	up to 10 mm
Walkable:	after min. 24 h
Grouting:	after min. 48 h
Open time:	up to 10 minutes
Average consumption per 1 m <sup>2</sup> :	5,0 kg
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### **EXPERT 2 Flexible adhesive**

- adhesive for porcelain stoneware and ceramic tiles, class C2TE
- ideal for all formats
- extended open time, easy to work with
- high adhesion, no run-off

0 kg
utes
h
h
ker, stoneware, concrete
ent screed, anhydrite screed, eating, concrete, plasterboard, ling mortar




#### EXPERT 2 WHITE flexible adhesive



- adhesive for all types of tiles, class C2TE
- ideal for natural stone, does not cause discolouration
- high adhesion and elasticity
- ideal for facades and balconies

lacation facades and sat	connes
Substrate type:	plaster, cement screed, anhydrite screed, underfloor heating, concrete, plasterboard, unfinished, old tiles, sealing mortar
Tile type:	ceramic, clinker, stoneware, concrete, natural stone
Layer thickness:	up to 10 mm
Walkable:	after min. 24 h
Grouting:	after min. 48 h
Open time:	up to 30 minutes
Average consumption per 1 m <sup>2</sup> :	4,5 kg
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg









#### EXPERT 3 Deformable adhesive



- adhesive for all types of tiles, class C2TE S1
- ideal for large tile formats
- contains rubber, routes and reinforcing fibres
- $\hfill \cdot$  ideal for facades, terraces, balconies, swimming pools

Substrate type:	plaster, screed, underfloor heating, concrete, plasterboard, old tiles, sealing mortar, oil varnish, chipboard
Tile type:	ceramic, clinker, stoneware, concrete
Layer thickness:	up to 10 mm
Walkable	after min. 24 h
Grouting:	after min. 48 h
Open time:	up to 30 minut
Average consumption per 1 m <sup>2</sup> :	4,5 kg
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### EXPERT 4 High-deformation



- white adhesive for all types of tiles, class C2TE S2
- for granite, marble, sandstone
- contains rubber, routes and reinforcing fibres
- ideal for facades, terraces, balconies, swimming pools

On pallet / pallet weight:	48 pcs / 1230 kg
Packaging:	25 kg bag
Average consumption per 1 $m^2$ :	4,5 kg
Open time:	up to 30 minutes
Grouting:	after 48 h
Walkable:	after 24 h
Layer thickness:	up to 10 mm
Tile type:	ceramic, clinker, stoneware, concrete, natural stone
Substrate type:	plaster, screed, underfloor heating, concrete, plasterboard, old tiles, sealing mortar, oil varnish, chipboard











# PRODUCTS FOR TILES

#### **READY-TO-USE TILE ADHESIVE 111**



- white, highly flexible resin adhesive for tiles, class D2E
- for difficult and deformable substrates
- very high adhesion and elasticity
- water- and frost-resistant

Substrate type:	OSB, chipboard, cement-lime plaster, gypsum plaster, cement screed, anhydrite screed, underfloor heating, concrete, plasterboard				
Tile type:	ceramic, clinker, porcelain stoneware, concrete, terracotta, stone				
Layer thickness:	up to 5 mm	up to 5 mm			2
Walkable:	after min. 24 h				
Grouting:	after min. 72 h			+25°C	
Open time:	up to 30 minutes			+10°C	12 months
Average consumption per 1 m <sup>2</sup> :	3,0 kg				
Packaging:	1 kg bucket	7 kg bucket	15 kg bucket		
On pallet / pallet weight:	224 pcs / 254 kg	80 pcs / 604 kg	33 pcs / 542 kg		



Table 11. Properties and application range of grouts and silicone	Fuga Fuga 740 KREISEL FLEX 740 GROUT	NANOTECH GROUT 730	NANOTECH SILICON 720
Joint width	1-10 mm	1-20 mm	0-10 mm
Material	cement	cement	silicone
Classification	CG2WA	CG2WA	F-INT-EXT
Flexibility	YES	YES	YES
Water resistance / frost resistance	YES / YES	YES / YES	YES / YES
Number of colours	12	12	13
TYPE OF TILE AND SURFACE			
Ceramic / porcelain stoneware	•	•	•
Stone	•	•	•
Sanitary ceramics	•	•	•
Acrylic sanitary ware	•	•	•
PCV	•	•	•

solution recommended • solution not recommended

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**NEW** 

#### FLEX 740 GROUT



- smooth grout 1 10 mm
- flexible and quick-setting
- long-lasting colour and best durability
- resistant to fungi and mould

On pallet / pallet weight:	128 pcs / 670 kg	
Packaging:	5 kg bucket	
Coverage (for average consumption):	11 m <sup>2</sup> / 5 kg bucket	+5°C 24 months
Average consumption (30x30 cm tile, 3 mm grout):	0,45 kg / 1 m²	
Classification:	CG2WA	
Flexural strength	≥ 2,5 MPa	
Compressive strength:	≥ 15 MPa	
Grout width:	1 - 10 mm	
Substrate type:	ceramic, terracotta, clinker, stoneware, concrete, stone not susceptible to discolouration	

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#### NANOTECH GROUT 730



- grout with nanoparticles 1 20 mm
- fine-grained, smooth
- abrasion-resistant, colourfast
- water- and frost-resistant

Substrate type:	ceramic, terracotta, clinker, stoneware, concrete, stone not susceptible to discolouration			
Grout width:	1 - 20 mm	1 - 20 mm		
Compressive strength:	≥ 15 MPa	≥ 15 MPa		Â
Flexural strength	≥ 2,5 MPa			1,251/
Classification:	CG2WA			⊃ Kg ♥
Average consumption (30x30 cm tile, 3 mm grout):	0,45 kg / 1 m <sup>2</sup>		+25°C	
Coverage (for average consumption):	11 m²/ 5 kg bag		• +5°C	24 months
Packaging / in carton:	2 kg / 8 pcs	5 kg / 4 pcs		
On pallet / pallet weight:	240 pcs / 542 kg	128 pcs / 670 kg		L T

COLOUR PALETTES page 111

#### NANOTECH SILICON 720

- silicone sealant
- mould- and detergent-resistant
  - permanently elastic, highly adhesive
  - water- and frost-resistant

Surface type:	ceramic tiles, baths, shower trays, wash basins, PVC pipes, etc.
Grout width:	up to 10 mm
Total curing time:	2 mm/ 24 h
Processing time:	up to 25 min
Temperature resistance:	-40 °C to + 180 °C
Consumption:	up to 16 linear metres per cartridge
Average consumption per linear metre::	approx. 18 ml
Cartridge / in a carton / on a pallet:	280 ml / 15 pcs / 1260 pcs
Carton weight / pallet weight:	4,2 kg / 342 kg



PRODUCTS FOR TILES

## **Products for stone and clinker**





Table 12. Application of products for stone	STONE AND BRICK GROUT 704	ADHESIVE FOR FACADE STONE 102K	READY-TO-USE FACADE STONE ADHESIVE 111K	GYPSUM ADHESIVE FOR STONE 681
Base	cement	cement	polymer	gypsum
Colour	white, cream, light grey, grey, graphite, black	grey	white	white
white	CG2A	C1T	D2E	-
	1	APPLICATION:		
Interior	••	••	••	••
Exterior		•		•
		DECORATIVE STONE	:	
Gypsum		•	••	••
Cement	••			•
Concrete				•
		NATURAL STONE:		
Marble	••	•		•
Travertine	••	•	••	•
Granite	••	•	••	•
		CERAMICS:		
Brick	••	••	••	•
Clinker	••	••	••	•

 $\blacksquare$   $\blacksquare$  best solution  $\blacksquare$  solution acceptable  $\blacksquare$  solution not recommended

Table 13. Products for clinker	POZMUR-KL NANO 130	CLINKER NANO-GROUT 701
Colours	white, light grey, grey, graphite, black, sandy	white, light grey, grey, graphite, black, sand, brown, brick-red
Purpose	bricklaying	brick and tile jointing
Thrace content	yes	yes
Grain size	2,0 mm	0,5 mm
Class	M10	CG2A
Layer thickness (mm)	5-30	5-20
Possibility of entering	not applicable	24 hours
Average consumption	approx. 45 kg/m <sup>2</sup>	approx. 4,0 kg/m <sup>2</sup>
	APPLICATION:	
Inside	•	•
Exterior	•	•
Frost resistance	•	•
Waterproof	•	•



#### **STONE AND BRICK GROUT 704**



- jointing mortar, with trass 5 20 mm
- reduces the risk of efflorescence
- colourfast, flexible and water-resistant

frostproof

•	
Substrate type:	clinker bricks and fittings, tiles and shaped stone, ceramic tiles
Grout width:	5 - 20 mm
Compressive strength:	≥ 15 MPa
Classification according to EN 13888:	CG2A
Average consumption (6.5x25 cm bricks and 10 mm joints):	3,2 kg/m²
Coverage (for average con- sumption):	1,5 m <sup>2</sup> / 5 kg bucket
Packaging:	5 kg bucket
On pallet / pallet weight:	80 pcs / 430 kg
	A



COLOUR PALETTES page 111

#### ADHESIVE FOR FACADE STONE 102K



olid Stone

GIPSOW

- frost-resistant cementitious adhesive, class C1T
- high adhesion, ideal for interiors
- thixotropic, with limited run-off
- waterproof, frost resistant

Substrate type:	cement-lime plaster, gypsum plaster, concrete
Tile type:	concrete, cement, conglomerate
Layer thickness:	up to 5 mm
Entrance possibility:	after min. 24 h
Grouting possible:	after min. 48 h
Tiling time:	10 minutes
Average consumption per 1 m <sup>2</sup> :	4,0 kg
Packaging:	12 kg bucket
On pallet / pallet weight:	33 pcs / 604 kg



#### **GYPSUM ADHESIVE FOR STONE 681**

- adhesive for stone tiles
  - easy to apply
     plastic
  - highly adhesive

On pallet / pallet weight:	33 pcs / 604 kg
Packaging:	12 kg bucket
Average consumption per 1 m <sup>2</sup> :	3,0 kg
Tiling time:	10 minutes
Grouting possible:	after min. 24 h
Layer thickness:	up to 5 mm
Tile type:	gypsum
Substrate type:	cement-lime plaster, gypsum plaster, concrete
highly deliesive	







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



- resin adhesive, class D2E
- for difficult and deformable substrates, ideal for OSB and particleboard
- very high adhesion and elasticity
- easy to use, white

Substrate type:	OSB, chipboard, cement-lime plaster, gypsum plaster, concrete, plasterboard
Tile type:	ceramic, terracotta, clinker, porcelain stoneware, concrete, gypsum, stone
Layer thickness:	up to 5 mm
Entrance possibility:	after min. 24 h
Grouting possible:	after min. 72 h
Tiling time:	30 minut
Average consumption per 1 m <sup>2</sup> :	3,0 kg
Packaging:	7 kg bucket
On pallet / pallet weight:	80 pcs / 604 kg



#### **CLINKER NANO-GROUT 701**

specialist jointing mortar with trass, for joint widths of 5-20 mm
reduces the risk of efflorescence
high colour stability, long-lasting colour
water, and front resistant

<ul> <li>water- and frost-resistant</li> </ul>	
Substrate type:	clinker bricks and fittings, tiles and shaped stone, ceramic tiles
Grout width:	5 - 20 mm
Compressive strength:	≥ 15 MPa
Classification according to EN 13888:	CG2A
Average consumption (6.5x25 cm bricks and 10 mm joints):	3,2 kg/m²
Coverage (for average con- sumption):	3,1 m <sup>2</sup> / 10 kg bucket
Packaging:	10 kg bucket
On pallet / pallet weight:	33 pcs / 360 kg



COLOUR PALETTES page 111

NANOFUG

#### POZMUR-KL NANO 130



COLOUR PALETTES page 111

- masonry mortar with trass for clinker elements
- reduces the risk of efflorescence and discolouration
  - high colour stability, long-lasting colour
  - for full bond brickwork, water and frost resistant

Type of masonry units:	clinker bricks
Joint width:	5 - 30 mm
Compressive strength:	M10
Bending strength:	≥ 2,5 MPa
Average wear and tear masonry thickness 12 cm:	45 kg/m <sup>2</sup>
Grain size:	0 - 2 mm
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



# **Primers**





PRIMERS FOR PLASTERS: "WALL INSULATION SYSTEMS" Page 27

Table 14. Properties of primers

	GEL PRIMER 308	EXPERT 5	EXPERT 6	GRUNTOLIT- -B 300	GRUNTOLIT-W 301	GRUNTOLIT-SG 302	GRUNTOLIT-SO 305	KONTAKT PRIMER 307
Can be diluted	•	•	•	•	•	•	•	•
Colour after drying	colourless	colour- less	colour- less	colourless	colourless	colourless	colourless	blue
Further work after	15 min.	12 h	2 h	2 h	2 h	12 h	6 h	18 h
	·			FOR USE UI	NDER:			
Paints	••	•	•	٠	•	••	••	•
Adhesives for tiles	••	••	••	٠	•	•	•	••
Hydroiso- lations	••	••	•	٠	•	••	•	•
Cementitio- us screeds	••	••	•	•	•	••	•	••
Anhydrite screeds	•	•	•	•	•	•	•	•
Plastering	••	•	•	•	•	••	•	•
Levelling mortars	•	•	•	٠	•	•	•	•
Cement- lime plastering	•	•	•	•	•	•	•	•
Renovation plasters	•	•	•	•	•	•	•	•

• • best solution • acceptable solution • not recommended solution



#### **GEL PRIMER 308**



- non-drip gel primer,
- quick-drying
- deep-penetration
- under paints, glazes, adhesives, screeds, mortars

On pallet / pallet weight:	120 pcs / 642 kg	
Packaging:	5 L canister	
Coverage:	up to 50 m <sup>2</sup>	
Approximate consumption:	0,1 L/m <sup>2</sup> to 0,30 L/ m <sup>2</sup> per layer	
Colour when dry:	colourless	
Further work after:	approximately 15 minutes	
Coating drying time:	approximately 2 hours	
Substrate type:	cement-lime plaster, gypsum plaster, plaster board, cement screed, bricks, blocks, cellu concrete	



#### **GRUNTOLIT-B 300**



- universal water-based primer
- to even out absorption
- reinforces the substrate
- water- and frost-resistant

Substrate type:	cement-lime plas cement screeds	ter, gypsum plast	er, plasterboard,	
Coating drying time:	approximately 2 I	nours		
Further work after:	after 2 hours	after 2 hours		
Colour when dry:	colourless			
Approximate consumption:	0,05 L/m² to 0,30 L/ m² per layer			
Coverage:	up to 75 m <sup>2</sup>	up to 150 m <sup>2</sup>	up to 300 m <sup>2</sup>	- ALO
Packaging:	5 L canister	10 L canister	20 L canister	
On pallet / pallet weight:	120 pcs / 642 kg	40 pcs / 448 kg	30 pcs / 648 kg	↓ +5°C



#### **GRUNTOLIT-W 301**

- aqueous primer
- for levelling out absorption, reinforces the substrate
- increases adhesion
- facilitates the application of coatings

On pallet / pallet weight:	cardboard 12 pcs/13 kg	120 pcs / 642 kg	30 pcs/648 kg
Packaging:	1 L bottle 5 L canister 20 L caniste		20 L canister
Coverage:	up to 20 m <sup>2</sup> up to 100 m <sup>2</sup> up to 400 m <sup>2</sup>		up to 400 m <sup>2</sup>
Approximate consumption:	0,05 L/m <sup>2</sup> to 0,30 L/ m <sup>2</sup> per layer		
Colour when dry:	colourless		
Further work after:	after 2 hours		
Coating drying time:	approximately 2 hours		
Substrate type:	cement-lime plaster, gypsum plaster, plasterboard, cement screed, bricks, blocks, cellular concrete		





#### **GRUNTOLIT-SG 302**



- deep penetrating primer
- significantly reduces absorption
- increases adhesion, facilitates application of paints and varnishes
- water- and frost-resistant

Substrate type:	cement-lime plaster, gypsum plaster, plaster- board, cement screed, bricks, blocks, cellular concrete
Coating drying time:	approximately 2 - 4 hours
Further work after:	approximately 12 hours
Colour when dry:	colourless
Approximate consumption:	0,05 L/m <sup>2</sup> to 0,30 L/ m <sup>2</sup> per layer
Coverage:	up to 100 m <sup>2</sup>
Packaging:	5 L canister
On pallet / pallet weight:	120 pcs / 642 kg



#### **GRUNTOLIT-SO 305**



- special primer for silicone and silicate paints
- reduces and evens out absorbency
- increases adhesion and facilitates paint application
- under silicone, si-si, silicate and polymer paints

Substrate type:	cement-lime plaster, gypsum plaster, plasterboard, mineral plasters
Coating drying time:	approximately 2 - 4 hours
Further work after:	approximately 6 hours
Colour when dry:	colourless
Approximate consumption:	0,05 L/m² to 0,30 L/ m² per layer
Coverage:	up to 100 m <sup>2</sup>
Packaging:	5 L canister
On pallet / pallet weight:	120 pcs / 642 kg



#### **KONTAKT PRIMER 307**



- special bonding primer for difficult substrates
- with quartz aggregate, increases adhesion
- highly adhesive, water and frost resistant
- under adhesives, glazes, screeds

On pallet / pallet weight:	80 pcs / 430 kg	
Packaging:	5 kg bucket	
Coverage:	up to 25 m <sup>2</sup>	
Approximate consumption:	0,2 kg/m <sup>2</sup> to 0,3 kg/ m <sup>2</sup> per layer	
Colour when dry:	blue	
Further work after:	approximately 18 hours	
Coating drying time:	approximately 12 hours	
Substrate type:	ceramic tiles, OSB, chipboard, oil-based varnishes, non-absorbent concrete	





#### **EXPERT 5**



- concentrated deep penetrating primer
   significantly reduces absorption
- · increases adhesion, facilitates application of paints and varnishes
- dilutable, water and frost resistant

Substrate type:	cement-lime plaster, gypsum plaster, plasterboard, cement screed, bricks, blocks, cellular concrete
Coating drying time:	approximately 2 - 4 hours
Further work after:	approximately 12 hours
Colour when dry:	colourless
Approximate consumption:	0,05 L/m <sup>2</sup> to 0,30 L/ m <sup>2</sup> per layer
Coverage:	up to 100 m <sup>2</sup>
Packaging:	5 L canister
On pallet / pallet weight:	120 pcs / 642 kg



#### **EXPERT 6**



- deep penetrating primer
- significantly reduces absorption
- · increases adhesion, facilitates application of paints and varnishes
- water- and frost-resistant

Substrate type:	cement-lime plas cement screed, b		· •
Coating drying time:	approximately 2 hours		
Further work after:	approximately 2 hours		
Colour when dry:	colourless		
Approximate consumption:	0,05 L/m <sup>2</sup> to 0,30 L/ m <sup>2</sup> per layer		
Coverage:	up to 20 m <sup>2</sup>	up to 100 m <sup>2</sup>	up to 200 m <sup>2</sup>
Packaging:	1 L bottle	5 L canister	10 L canister
On pallet / pallet weight:	carton 12 pcs/ 13 kg	120 pcs/ 642 kg	40 pcs/ 448 kg





PRIMERS

Table 15. Properties of primers for gypsum and cement-lime plasters	EXPERT 317	Grunt Go batone EXPERT 314	EXPERT 315	GRUNTOBET 310	GRUNTOLIT-K 311
Possibility of dilution	NO	NO	YES	NO	YES
Colour when dry	yellow	red	yellow	red	yellow
Further work after	12 h	24 h	12 h	24 h	12 h
		FOR USE	UNDER:		
Paints	•	•	•	•	•
Adhesives for tiles	•	•	•	•	•
Waterproofing	•	•	•	•	•
Cementitious screeds	•	•	•	•	•
Anhydrite screeds	•	•	••	•	••
Plastering	•	•	•	•	•
Gypsum plasters	••	••	••	••	••
Cement-lime plastering	•	••	•	••	•
Gypsum and cement plastering	••	••	••	••	••

 $\bullet \bullet$  best solution  $\bullet$  acceptable solution  $\bullet$  not recommended solution

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#### **EXPERT 317 READY PRIMER FOR WALLS**



PRIMER

- primer for gypsum, cement-lime and hybrid plasters
- improves adhesion
- facilitates the execution of work
- reduces the absorbency of the substrate

Substrate type:	cement-lime plaster, gypsum plaster, plasterboard, cement screed, bricks, blocks, cellular concrete
Coating drying time:	2-4 hours
Further work after:	approximately 12 hours
Colour when dry:	yellow
Approximate consumption:	between 0,2 kg/m <sup>2</sup> and 0,3 kg/m <sup>2</sup>
Coverage:	70 m² / 15 kg
Packaging:	15 kg bucket
On pallet / pallet weight:	24 pcs / 402 kg





#### **EXPERT 314 PRIMER FOR CONCRETE**



- primer for gypsum and cement-lime plasters
- with quartz aggregate
- improved adhesion of applied plasters
- reduces the absorbency of the substrate and facilitates application

Substrate type:	cement-lime plaster, gypsum plaster, plasterboard, cement screed, bricks, blocks, cellular concrete
Coating drying time:	approximately 12 hours
Further work after:	approximately 24 hours
Colour when dry:	red
Approximate consumption:	0,25 kg/m <sup>2</sup> to 0,35 kg/m <sup>2</sup>
Coverage:	80 m² / 20 kg
Packaging:	20 kg bucket
On pallet / pallet weight:	24 pcs / 522 kg



#### **EXPERT 315 PRIMER FOR WALLS**



- concentrated gypsum plaster primer
- facilitates application
- improved adhesion of applied plasters
- reduces the absorbency of the substrate











#### **GRUNTOBET 310**



- primer for gypsum and cement-lime plasters
- increases the adhesion of the applied plasters
- with quartz aggregate facilitates application
- reduces the absorbency of the substrate

Substrate type:	Cement-lime plaster, gypsum plaster, plasterboard, cement screed, bricks, blocks, cellular concrete
Coating drying time:	approximately 12 hours
Further work after:	approximately 24 hours
Colour when dry:	red
Approximate consumption:	0,25 kg/m² to 0,35 kg/m²
Coverage:	80 m² / 20 kg
Packaging:	20 kg bucket
On pallet / pallet weight:	24 pcs / 522 kg







#### **GRUNTOLIT-K 311**



- highly concentrated gypsum plaster primer
- increases the adhesion of the applied plasters
- facilitates application
- reduces the absorbency of the substrate

Substrate type:	Cement-lime plaster, gypsum plaster, plasterboard, cement screed, bricks, blocks, cellular concrete
Coating drying time:	approximately 2 - 4 hours
Further work after:	approximately 12 hours
Colour when dry:	yellow
Approximate consumption:	0,25 kg/m <sup>2</sup> to 0,35 kg/m <sup>2</sup>
Coverage:	200 m² / 15 kg
Packaging:	15 kg bucket
On pallet / pallet weight:	24 pcs / 402 kg





# Waterproofing insulations





Table 16. Properties and application areas of waterproofing membranes	FOLBIT 800	BUDOSZCZEL-H 810	AQUA DUO 822
Type of insulation	Liquid film	Sealing mortar on balconies	Two-component cement and -polymer
Application temperature		+5°C to +25°C	
Drying time for 1 coat approx.	3 h	4 h	5 h
Further work after min.	18 h	72 h	72 h
Min. number of coats to be applied		2	
Minimum layer thickness	1,0 mm	2,0 mm	2,0 mm
Resistance to water under pressure	≥ 0,5 MPa	≥ 0,5 MPa	≥ 0,5 MPa
Frost resistance	•	•	•
Adhesion to concrete	≥ 0,5 MPa	≥ 1,0 MPa	≥ 1,5 MPa
Bridging of cracks to	2,5 mm	0,75 mm	0,75 mm
	PLACES OF A	APPLICATION	
Kitchens, bathrooms	••	•	•
Sealing of old cladding ceramic	٠	••	•
Industrial kitchens and laundries, shower without shower tray	٠	•	••
Industrial premises	•	•	••
Balconies	٠	••	••
Terraces	•	•	••
Swimming pools	•	•	••
		RTS OF BUILDINGS	
(a) horizontal insulation	•	•	••
(b) vertical insulation	•	•	••
- slight	•	•	••
- medium	•	•	••
- heavy	•	•	• •

 $\bullet \bullet$  best solution  $\bullet$  acceptable solution  $\bullet$  not recommended solution



#### FOLBIT 800



- internal and external liquid film
- flexible, bridges cracks

Substrate type:

Further work after:

Colour when dry:

Consumption per

Capacity per 1 mm:

Watertight at

pressure:

1 mm:

Packaging: On pallet /

pallet weight:

Drying time:

- water- and frost-resistant
- highly adhesive and durable

concrete, screed, plaster, plaster, plaster	cement-lime plas ards	ter, gypsum	
approximately 3 h	nours (1 layer)		
approximately 18	hours		min.2x
blue			
≥ 0,5 MPa			
1,4 kg / m²	1		+25 C
2,8 m <sup>2</sup>	5,0 m <sup>2</sup>	15,0 m <sup>2</sup>	

21 kg bucket

33 pcs /

740 kg

7 kg bucket

33 pcs /

261 kg







#### **BUDOSZCZEL-H 810**



- sealing mortar for balconies, terraces and foundations

4 kg bucket

100 pcs /

444 kg

- cementitious, flexible, single-component
- high watertight, UV resistant - for use in renovation systems

Substrate type:	concrete, screed, cement-lime plaster, gypsum board, plasterboard	
Drying time for 1 coat:	approximately 4 hours	
Further work after:	approximately 72 hours	
Colour when dry:	grey	
Watertight at pressure:	≥ 0,5 MPa	
Layer thickness:	2 - 5 mm	
Capacity per 1 mm:	approx. 16 m²/ 25 kg package	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



#### **AQUA DUO 822**



- two-component waterproofing mortar
- cementitious, highly flexible, bridges substrate cracks
- high watertight, UV resistant
- for balconies, terraces, swimming pools, paddling pools and foundations

Substrate type:	concrete, screed, plaster, plasterbo	cement-lime plast ards	ter, gypsum
Drying time 1 layer:	approximately 5 hours		
Further work after:	approximately 72 hours		
Colour when dry:	grey		
Waterproof:	≥ 0,5 MPa		
Layer thickness:	2 - 4 mm		
Capacity per 1 mm:	20 m <sup>2</sup>	10 m <sup>2</sup>	6,7 m <sup>2</sup>
Set:	32 kg 24 kg bag 8 kg canister	16 kg 34 kg bags 4 kg canister	10.7 kg 2 bags of 4 kg canister 2.7 kg





+5°



#### Table 17. Application range of bitumen mastics

Use of	DYSPERBITUM 830	STYRBITUM 832
Roofing renovation	•	•
Bituminous primer	•	•
Polystyrene adhesive	•	•
Adhesive for XPS	•	•
Horizontal insulation	•	•
Light vertical insulation	•	•
Heavy-duty vertical insulation	•	•

solution recommended • solution not recommended

#### **DYSPERBITUM 830**



- dispersion bitumen-rubber compound
- for the maintenance of roofing felt
- aqueous, solvent-free
- for priming and waterproofing

1 3 1	3		
Substrate type:	concrete, screed, concrete blocks		
Drying time 1 layer:	approximately 6 hours		
Further work after:	approximately 6 hours		
Colour when dry:	black		
Consumption per 1 coat:	0,8 - 1,2 kg/m <sup>2</sup>		
Coverage:	approx. 7,5 m <sup>2</sup>	approx. 15 m <sup>2</sup>	
Packaging:	10 kg bucket	20 kg bucket	
On pallet / pallet weight:	55 pcs / 580 kg	33 pcs / 690 kg	



#### **STYRBITUM 832**



- waterproofing-adhesive compound
- for bonding polystyrene and XPS to foundations
- solvent-free
- high adhesion and waterproofing

Substrate type:	concrete, screed, concrete blocks
Waterproofing drying time	3 - 5 days
Drying time as an adhesive	up to 14 days
Consumption per 1 coat:	0,6 - 1,2 kg/m <sup>2</sup>
Thickness of a single layers	up to 2 mm
Coverage:	up to 30 m <sup>2</sup>
Packaging:	18 kg bucket
On pallet / pallet weight:	33 pcs / 624 kg





info

#### **SEALING TAPE**



- protection against water penetration
  for bathrooms, shower rooms
- water- and frost-resistant

flexible

Composition:	polyester fabric	
Sealing width:	7 cm	
Belt width:	12 cm	
Roll length:	10 lub 50 m	





#### protection against water penetration of installation passages

- waterproof
- frostproof
- flexible

Composition:	polyester fabric	
Dimensions:	120 x 120 mm	
Deckering	25 szt.	→← info
Packaging:	2 szt.	



- protection against water penetration of installation passages
- waterproof
- frostproof
- flexible

Composition:	polyester fabric	
Dimensions:	350 x 350 mm	
Deckaring	10 szt.	
Packaging:	1 szt.	



#### INTERNAL AND EXTERNAL CORNER

flexible





Composition: polyester fabric Sealing width: 7 cm 12 cm Belt width: 1 szt. Packaging:

- protection against water penetration in corners

• for bathrooms, shower rooms water- and frost-resistant





#### TU BT BUTYL SEALING TAPE



- easy use
- self-adhesive
- protection against water penetration
- water- and frost-resistant, flexible

Composition:	polypropylene fabric, butyl rubber	
Belt width:	10 or 15 cm	
Dimensions seal/width/	<b>TU BT 100/10</b> 10 cm/10 cm/10 m.b	<b>~</b> ]
Length:	<b>TU BT 150/10</b> 15 cm/15 cm/10 m.b	
Roll length:	10 m	





- very high insulation and flexibility
- for bathrooms, balconies, terraces, swimming pools
- waterprooffrostproof

Composition:	polyester fabric, elastomer	
Sealing width:	12 cm	
Belt width:	12 cm	
Dell los eth:	10 m	info
Roll length:	50 m	



## Gypsum products and skim coats





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gypsum products and skim coat
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Table 18. Properties of gypsum plasters	LIME- GYPSUM PLASTER 675L	GYPSUM PLASTER AQUA 653	EXPERT GYPSUM PLASTER 651L PLUS	MACHINE- -APPLIED LIGHT GYPSUM PLASTER 651L	MACHINE- -APPLIED HARD GYPSUM PLASTER 651T	MACHINE- -APPLIED GYPSUM PLASTER 651	HAND- -APPLIED GYPSUM PLASTER 650	EXPERT HYBRID 656
Layer thickness (mm) (wall)	8 - 25	8 - 25	5 - 25	5 - 25	5 - 25	5 - 25	5 - 25	8 - 40
Layer thickness (mm) (ceiling)	8 - 15	8 - 15	5 - 15	5 - 15	-	5 - 15	5 - 25	8 - 15
Compressive strength	≥ 2 N/mm <sup>2</sup>	≥ 6 N/mm²	≥ 2 N/mm²	≥ 2 N/mm²	≥ 6 N/mm²	≥ 2 N/mm²	≥ 2 N/mm²	≥ 6 N/mm²
Consumption per 10 mm/ m <sup>2</sup>	8 kg	10 kg	8 kg	8 kg	10 kg	10 kg	8,5 kg	13 kg
Overlay machine	YES	YES	YES	YES	YES	YES	NO	YES
Manual application	YES	YES	YES	YES	YES	YES	YES	YES
				FEATURES				
Coverage	•••	•••	•••	•••	••	••	•••	•
Smoothness	•••	•••	•••	••	••	••	••	•••
Ease of application	•••	•••	•••	••	••	••	••	•••
Surface hardness	•	•	•	•	•••	•	•	•••
•••high ••	good 🔍 suffic	ient						
PLACE OF APPLICATION								
Wet rooms	•	•	•	•	•	•	•	•
Dry rooms	•	•	•	•	•	•	•	•
Utility rooms	٠	٠	٠	•	٠	٠	•	•

solution acceptable • solution not recommended



#### LIME-GYPSUM PLASTER 675L



- highly vapour-permeable
- smooth surface, ideal for interiors
- high adhesion to mineral substrates
- ideal for plaster, paint

concrete, brick, aerated concrete blocks, silicate, ceramic hollow blocks, ceilings
≥ 2 N/mm²
approximately 4 hours
0 - 0,8 mm
8 - 25 mm (ceiling up to 15 mm
approx. 8 kg/m <sup>2</sup>
up to 3,75 m² / bag
30 kg bag
40 pcs / 1230 kg



#### **GYPSUM PLASTER AQUA 653**



- waterproof gypsum plaster
- for all areas including bathrooms
- high adhesion and durability
- ideal for tiles, paints and plaster

Substrate type:	concrete, brick, aerated concrete blocks, silicate, ceramic hollow blocks, ceilings
Compressive strength:	≥ 6 N/mm²
Processing time:	approximately 4 hours
Grain size:	0 - 0,8 mm
Layer thickness:	8 - 25 mm (ceiling up to 15 mm)
Consumption per 1 cm thickness:	approx. 10 kg / m <sup>2</sup>
Coverage per 1 cm thickness:	up to 3,0 m² / bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg



#### EXPERT GYPSUM PLASTER SMOOTH 651L PLUS



- perfectly smooth gypsum plaster
- easy to apply
- high performance and adhesion
- for interior use







#### MACHINE-APPLIED LIGHT GYPSUM PLASTER 651L



- high adhesion and coverage
- 30% higher coverage compared to standard plasters
- easy to apply
- for interior use

Packaging:	30 kg bag
Coverage per 1 cm thickness:	up to 3,75 m <sup>2</sup> / bag
Consumption per 1 cm thickness:	approx. 8 kg / m <sup>2</sup>
Layer thickness:	5 - 25 mm (ceiling up to 15 mm)
Grain size:	0 - 1,2 mm
Processing time:	approximately 4 hours
Compressive strength:	≥ 2 N/mm²
Substrate type:	concrete, brick, aerated concrete blocks, silicate, ceramic hollow blocks, ceilings



#### MACHINE-APPLIED HARD GYPSUM PLASTER 651T



- increased surface hardness
- high mechanical strength
- for interior use
  easy to apply

On pallet / pallet weight:	40pcs / 1230 kg
Packaging:	30 kg bag
Coverage per 1 cm thickness:	up to 3,0 m <sup>2</sup> / bag
Consumption per 1 cm thickness:	approx. 10 kg / m²
Layer thickness:	5 - 25 mm
Grain size:	0 - 1,2 mm
Processing time:	approximately 4 hours
Compressive strength:	≥ 6 N/mm²
Substrate type:	concrete, brick, aerated concrete blocks, silicate, clay blocks



#### **MACHINE-APPLIED GYPSUM PLASTER 651**



- single layer
- very good adhesion
- for interior use



Substrate type:	concrete, brick, aerated concrete blocks, silicate, ceramic hollow blocks, ceilings
Compressive strength:	$\geq 2 \text{ N/mm}^2$
Processing time:	approximately 4 hours
Grain size:	0 - 1,2 mm
Layer thickness:	5 - 25 mm (ceiling up to 15 mm)
Consumption per 1 cm thickness:	approx. 10 kg / m <sup>2</sup>
Coverage per 1 cm thickness:	up to 3,0 m <sup>2</sup> / bag
Packaging:	<b>30 kg</b> bag
On pallet / pallet weight:	40 pcs / 1230 kg





#### HAND-APPLIED GYPSUM PLASTER 650





- for manual application
- plastic
- ideal for processing reveals
- for interior use

Substrate type:	concrete, brick, aerated concrete blocks, silicate, ceramic hollow blocks, ceilings
Compressive strength:	≥ 2 N/mm²
Processing time:	approx. 120 min (for initial smoothing)
Grain size:	0 - 1,2 mm
Layer thickness:	5 - 50 mm
Consumption per 1 cm thickness:	approx. 8,5 kg / m <sup>2</sup>
Coverage per 1 cm thickness:	do 2,5 m² / bag
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### **EXPERT GYPSUM-CEMENT PLASTER HYBRID 656**



8

GIPSOWY

8 ( ) C

- high hardness and strength
- ease of application
- increased water resistance
- for all areas, under paints, glazes, tiles

Substrate type:	concrete, brick, aerated concrete blocks, silicate, ceramic hollow blocks, ceilings	
Compressive strength:	≥ 6 N/mm²	
Surface hardness:	≥ 14 N/mm²	
Grain size:	0 - 0,5 mm	
Layer thickness:	8 - 40 mm (ceiling up to 15 mm)	
Consumption per 1 cm thickness:	approx. 13 kg / m²	
Coverage per 1 cm thickness:	do 2,3 m² / bag	+5°C 4 months
Packaging:	30 kg bag	
On pallet / pallet weight:	40 pcs / 1230 kg	
	·	



- adhesive for plasterboard and stucco installation
- high adhesion and durability
- for interiors, easy to work with
- also used for gypsum block walls

Substrate type:	cement-lime plaster, gypsum plaster, concrete plaster, hollow blocks, bricks
Processing time:	up to 10 minutes
Compressive strength:	≥ 6 N/ mm²
Layer thickness:	5-15 mm
Consumption:	approx. 5,0 kg/m² for plasterboard
Packaging:	20 kg bag
On pallet / pallet weight:	54 pcs / 1110 kg





#### PLASTERING



			NEW
Tabela 19. Properties of smoothing compounds	GEADZ WARENNA LIME FINISH 660	LIME-CEMENT FINISH 662	GU 170 GU 170 START-FINISH
Base	lime	cement and lime	anhydrite
Colour	white	grey	white
Layer thickness	up to 3 mm	up to 5 mm	up to 3 mm
Ready-to-use	•	•	•
Waterproof	•	•	•
Frost resistance	•	•	•
Dry machining (grinding)	•	•	•
Wet processing	•	•	•
Overlay mechanical	•	•	•
Joining with mesh	•	•	•
Joining plasterboards without mesh	•	•	•
	PLACE OF APPLICAT	ΓΙΟΝ	
Wet rooms	•	•	•
Facades	•	•	•
Gypsum plasters	•	•	•
Plasters cement-lime	•	•	•
Plasterboard	•	•	•

solution recommended • solution not recommended



#### **GU170 START-FINISH**





- white anhydrite skim coat with polymers, manual and mechanical application
- for filling and smoothing walls and ceilings,
- under all types of paint
- flexible, easy to apply and to sand

On pallet / pallet weight:	54 pcs / 1110 kg
Packaging:	20 kg bag
Coverage per 1 mm thickness:	up to 20 m <sup>2</sup>
Consumption per 1 mm thickness:	approx. 1,0 kg / m²
Finishing standard:	Q2, Q3, Q4
Layer thickness:	≤ 3 mm
Adhesion:	≥ 0,1 MPa
Grain size:	up to 0,3 mm
Drying time:	24 - 48 hours
Processing time:	approx. 3 hours
Substrate type:	cement-lime plaster, gypsum plaster



LIME FINISH 660



- white, ecological up to 3 mm
- manual, traditional, highly vapour-permeable
- for wet machining without sanding
- waterproof, for wet rooms

1 ,	
Substrate type:	cement-lime plaster, gypsum plaster
Processing time:	approx. 3 hours
Drying time:	24 - 48 hours
Grain size:	up to 0,3 mm
Adhesion:	≥ 0,15 MPa
Layer thickness:	≤ 3 mm
Consumption per 1 mm thickness:	approx. 1,25 kg / m²
Coverage per 1 mm thickness:	up to 20 m <sup>2</sup>
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### LIME-CEMENT FINISH 662



- frost resistant, ecological up to 5 mm
- indoors and outdoors, for facades, for wet rooms
- for "wet processing" without sanding

durable

Substrate type:	lime-cement plaster filling layers, concrete
Processing time:	approx. 3 hours
Drying time:	24 - 72 hours
Grain size:	up to 0,5 mm
Adhesion:	≥ 0,2 MPa
Layer thickness:	≤ 5 mm
Consumption per 1 mm thickness:	approx. 1,25 kg / m <sup>2</sup>
Coverage per 1 mm thickness:	up to 20 m <sup>2</sup>
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



#### SKIM COATS AND FILLERS



Table 20. Properties of ready-to-use smoothing compounds	NEW	GM150	GIPSEL PLUS 603	GIPSEL PRO 692
Base	polymers	polymers	resin	resin
Colour	snow white	snow white	snow white	snow white
Ready-to-use	•	•	•	٠
Waterproof	•	•	•	•
Frost resistance	•	•	•	•
Dry machining (grinding)	•	•	•	•
Wet processing	•	•	•	•
Mechanical application	•	•	•	•
Roller application	•	•	•	•
Manual application	•	•	•	•
Joining plasterboards with mesh	•	•	•	•
Joining plasterboards without mesh	•	•	•	•
solution recommended	ion not recommended			
PLACE OF APPLICATION				
Wet rooms	•	•	•	•
Dry rooms	•	•	•	•
Gypsum plasters	•	•	•	•
Plasters cement-lime	•	•	•	•
Lime plasters	•	•	•	•
Plasterboard	•	•	•	٠

solution recommended • solution not recommended



#### **GR160 FINISH**





- ready-to-use, final, white smooth finish for walls and ceilings
- easy to apply, can be applied by hand, roller or machine
- flexible, easy to apply, no mixing required on application
- for all rooms, including wet rooms

Substrate type:	cement-lime plaster, gypsum plaster, lime, concrete, plasterboard
Drying time:	approx. 2 hours
Adhesion:	≥ 0,3 MPa
Layer thickness:	≤ 2 mm
Standard of finish	Q2, Q3, Q4
Consumption per 1 mm layer:	approx. 1,0 kg / m <sup>2</sup>
Coverage:	up to 25 m <sup>2</sup>
Packaging:	25 kg bucket
On pallet / pallet weight:	33 pcs / 872 kg



#### GM150 ready-to-use polymer skim coat



- flexible polymer skim coat for aggregate and for roller
- increased hardness, ready-to-use
- highly flexible, snow-white, highly ductile and smooth
- indoors, for wet rooms, under paints

cement-lime plaster, gypsum plaster, plasterboard
approx. 2 hours
≥ 0,3 MPa
≤ 2 mm
Q2, Q3, Q4
approx. 1,9 kg / m <sup>2</sup>
up to 20 m <sup>2</sup>
18 kg bucket
44 pcs / 838 kg



#### **GIPSEL PRO 692**



- ready-to-use joint compound for gypsum plasterboards, without tape
- white, flexible, highly durable
- easy to apply, for repairing cracks
- indoors, wet rooms, under paint, wallpaper

Substrate type:	plasterboard, cement-lime plaster, gypsum plaster
Drying time:	approx. 2 hours
Adhesion:	≥ 0,2 MPa
Layer thickness:	≤ 5 mm
Standard of finish	Q1, Q2, Q3, Q4
Consumption:	approx. 0,35 kg / lm
Coverage:	up to 14,3 lm
Packaging:	5 kg bucket
On pallet / pallet weight:	80 pcs / 632 kg





#### **GIPSEL PLUS 603**



- ready-to-use polymer skim coat
- up to 2 mm, white
- easy work with and smooth
- for interior, wet rooms, under paint

Substrate type:	cement-lime plaster, gypsum plaster, plasterboards		
Drying time:	approx. 2 hours		
Adhesion:	≥ 0,3 MPa		
Layer thickness:	≤ 2 mm		
Standard of finish	Q2, Q3, Q4		
Consumption per 1 mm layer:	approx. 1,9 kg / m²		
Coverage per 1 mm thickness:	up to 0,8 m <sup>2</sup>	up to 10,5 m <sup>2</sup>	
Packaging:	1,5 kg bucket	20 kg bucket	
On pallet / pallet weight:	224 pcs / 380 kg	44 pcs / 927 kg	



# Concrete repair system



#### KREISEL

Table 21. Properties of concrete repair mortars	Fix SPEED 421	The second secon	TAPPRAWA TAPPRATAPPRATATATATATATATATATATATATATATA	GEADŹ GEADŹ BETOMOV BE
Function	anchoring	contact mortar and corrosion protection	basic reprofiling layer	reprofiling, finishing layer
Layer thickness	2 - 50 mm	≤ 3 mm	5 - 50 mm	1 - 10 mm
Shelf life after blending with water	< 3 min.	< 60 min.	< 60 min.	< 60 min.
Amount of water	6,25 L / 25 kg 0,5 L / 2 kg	5,7 L/ 25 kg	4,0 L / 25 kg	5,5 L / 25 kg
Compressive strength after 28 days	≥ 25,0 MPa	≥ 30,0 MPa	≥ 25,0 MPa	≥ 25,0 MPa
Resistance to bending after 28 days	≥ 5,0 MPa	≥ 5,0 MPa	≥ 5,0 MPa	≥ 5,0 MPa
Adhesion to concrete after 28 days	≥ 0,8 MPa	≥ 0,8 MPa	≥ 0,8 MPa	≥ 0,8 MPa
Shrinkage after 28 days of hardening	-	< 0,14%	< 0,12%	< 0,16%
Capillary absorption [kg/m² min. 0,5]	-	≤ 0,5	≤ 0,5	≤ 0,5
Grain size	up to 0,5 mm	up to 0,5 mm	up to 2,0 mm	up to 0,5 mm
Classification according to EN 1504-3	R1	R2	R2	R2



#### **CONCRETE MORTAR 451**



456

ZAPRAWA NAPRAWCZA DO BETONÓW

460

GŁADŻ

BETONÓW

DO NAPRAN

- bonding and corrosion protection mortar
- corrosion protection for concrete and steel
- increases the adhesion of applied mortars
- high resistance to carbonisation

On pallet / pallet weight:	48 pcs / 1230 kg	
Packaging:	25 kg bag	
Consumption:	approx. 1,6 kg/dm <sup>3</sup>	
Compressive strength after 28 days:	≥ 30 MPa	
Carrying out further work:	up to 2 hours	
Processing time:	approx. 60 minutes	
Layer thickness:	≤ 3 mm	
Grain size:	up to 0,5 mm	
Substrate type:	concrete, concrete screed, reinforcing bars	



#### **CONCRETE REPAIR MORTAR 456**

- filling 5 50 mm
- very high strength
- flexible, low shrinkage
- · for the reprofiling of concrete and reinforced concrete structures

Substrate type:	concrete, concrete screed	
Grain size:	up to 2,0 mm	
Layer thickness:	5 - 50 mm	
Processing time:	approx. 60 minutes	
Carrying out further work:	after 24 hours	
Compressive strength after 28 days:	≥ 25 MPa	
Consumption:	approx. 1,9 kg/dm <sup>3</sup>	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



#### **CONCRETE REPAIR FINISH COAT 460**

- smoothing layer 1 10 mm
- high hardness and strength
- flexible, low shrinkage,
- for the reprofiling of concrete and reinforced concrete structures









#### FiX SPEED 421



- quick-assembly mortar
  for the installation of steel components, anchors, boxes into the substrate
- point sealing of leaks, repair of concrete elements

• water- and frost-resistant

On pallet / pallet weight:	168 pcs / 366 kg	48 pcs / 1230 kg	6 months
Packaging:	2 kg bucket	25 kg bag	
Consumption:	approx. 1,3 kg/dm <sup>3</sup>		
Compressive strength after 24 h:	≥ 25 MPa		
Compressive strength after 3h:	≥ 10 MPa		+25°C
Load capacity:	approx. 3 hours		
Processing time:	approx. 3 minutes		
Grain size:	up to 0.5 mm		
Substrate type:	cement-lime plaster, screeds cement, concrete, bricks		→ <b>←</b> ↓

# **Renovation and repairs**




Table 22. Properties of restoration products	910 OBRUTTRA DESERVATION DASH COAT 910	P20 TYNK TYNK RENOVATION BASE COAT PLASTER 920	<b>921</b> <b>TYNK</b> <b>WINTER</b> <b>PLASTER</b> 921	<b>922</b> <b>TYNK</b> <b>WINE OF CONTROL OF </b>	923 TYNK IVNK IVNK IVNK IVNK IVNK IVNK IVNK IV	<b>930</b> GEADŻ UNIENCIAL SKIM COAT 930
Layer thickness	4-5 mm	10-30 mm	10-25 mm	10-20 mm	10-20 mm	do 3 mm
Category endurance	CS IV	CS III	CS II	CS II	CS I	CS I
Adhesion	≥ 0,45 MPa	≥ 0,2 MPa	≥ 0,2 MPa	≥ 0,25 MPa	≥ 0,1 MPa	≥ 0,2 MPa
Open porosity	-	> 45 %	> 40 %	> 40 %	-	-
Grain size	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 23. Product selection based on salinity levels

Degree of salinity	Layering	Layer thickness	Technological break
	RENOVATION DASH COAT 910	< 5,0 mm	3 days
Low	PLASTER 921 or 922	10,0-20,0 mm	1 day/1 mm layer
	RENOVATION SKIM COAT 930	< 5,0 mm	3 days for possible painting
	RENDERING COAT 910	< 5,0 mm	3 days
Medium	RENOVATION BASE COAT PLASTER 920	10,0-20,0 mm	1 day/1 mm layer
medium	PLASTER 921 or 922	10,0-20,0 mm	1 day/1 mm layer
	RENOVATION SKIM COAT 930	Smoothing < 3 mm	3 days for possible painting
	RENOVATION DASH COAT 910	< 5,0 mm	3 days
11.4	RENOVATION BASE COAT PLASTER 920	10,0-30,0 mm	1 day/1 mm layer
High	PLASTER 921 or 922	10,0-20,0 mm	1 day/1 mm layer
	RENOVATION SKIM COAT 930	Smoothing < 3 mm	3 days for possible painting



### RENOVATION DASH COAT 910



- undercoat plaster
- high adhesion
- in accordance with WTA guidelines
- vapour-permeable, water- and frost-resistant

Substrate type:	old masonry, concrete, brick, cellular concrete blocks, silicate, ceramic hollow blocks, ceilings	
Grain size:	up to 2.0 mm	
Endurance category:	CS IV	
Layer thickness:	4 - 5 mm	
Consumption on average:	approx. 6 - 8 kg/ m <sup>2</sup>	
Coverage:	up to 4,0 m <sup>2</sup> / bag	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



### RENOVATION BASE COAT PLASTER 920



- wide-pore, lime-cemented
- for sites with medium to high salt load
- stores crystallising salts, vapour-permeable, hydrophobic
- $\boldsymbol{\cdot}$  high adhesion, complies with WTA guidelines, water and frost resistant

Substrate type:	old brick, stone, concrete, clay blocks, ceilings
Grain size:	up to 2,0 mm
Endurance category:	CS III
Open porosity:	> 45%
Layer thickness:	10 - 30 mm
Colour:	grey
Consumption on average per 1 cm:	approx. 12 kg / m <sup>2</sup>
Coverage (for 1 cm):	up to 2,1 m <sup>2</sup> / bag
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### RENOVATION PLASTER 921

- with trass, lime-cemented
- contains routes, reduces the risk of efflorescence
- for low, medium and high salt load areas
- high adhesion, complies with WTA guidelines









### **RENOVATION PLASTER 922**



- fine-grained, lime-cemented
- does not restrict vapour-permeability, hydrophobic
- for low, medium and high salt load areas
- high adhesion, complies with WTA guidelines

Substrate type:	old brick, stone, concrete, clay blocks, ceilings	
Grain size:	up to 0,5 mm	
Endurance category:	CS II	
Open porosity:	> 40%	
Layer thickness:	10 - 20 mm	
Colour:	white	
Consumption on average per 1 cm:	approx. 11 kg / m²	
Coverage (for 1 cm):	up to 2,3 m <sup>2</sup> / bag	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



### **RENOVATION LIME PLASTER 923**



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GŁADŻ

- ecological, limestone
- does not restrict vapour-permeability, hydrophobic
- for low, medium salt-laden areas
- complies with WTA guidelines

Substrate type:	old brick, stone, concrete, clay blocks, ceilings
Grain size:	up to 0.5 mm
Endurance category:	CS I
Layer thickness:	10 - 20 mm
Colour:	white
Consumption on average per 1 cm:	approx. 13 kg / m²
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### **RENOVATION SKIM COAT 930**

- fine-grained, lime-cemented
- vapour-permeable, water- and frost-resistant
- complies with WTA guidelines
- flexible, for smooth finishes

Substrate type:	old brick, stone, concrete, clay blocks, ceilings
Grain size:	up to 0.5 mm
Endurance category:	CS I
Layer thickness:	up to 3 mm
Colour:	light grey
Consumption on average per 1 cm:	approx. 1,1 kg / m <sup>2</sup>
Capacity (for 1 mm):	up to 22,7 m <sup>2</sup> / <b>bag</b>
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg





### INJECTION AND IMPREGNATION LIQUID 900



- for pressure and gravity injection
- hydrophobises and narrows capillaries
- restoration of horizontal insulation
- impregnation and priming of porous materials

Substrate type:	cement-lime plaster, lime plaster, brick masonry, hollow bricks, blocks	
Dilutions for impregnation:	1:2 - 1:3	
pH:	12	
Colour when dry:	clear	
Approximate consumption - impregnate:	from 0,05 L/m <sup>2</sup> (undiluted)	
Approximate consumption - injection agent:	from 1.2 L/lm (for a wall 50 cm wide)	
Packaging:	5 L plastic container	
On pallet / pallet weight:	120 pcs / 642 kg	



**NEW** 

### **INJECTION CREAM 901**



- for severely damp walls and foundations
- further work after 24 hours
- hydrophobic effect
- for making a horizontal diaphragm

Substrate type:	cement-lime plaster, lime plaster, brick masonry, hollow bricks, blocks		
Density:	0,9 g/cm <sup>3</sup>		
pH:	12		
Colour when dry:	clear		
Applicability:	gravity and pressure		
Approximate consumption - injection agent:	approximately 80 ml/lm (for every 10 cm of wall thickness)		
Packaging:	10 L bucket		
On pallet / pallet weight:	10 pcs / 124 kg		





77



### **RENOVATION SOL-SILICATE PAINT 092**

- silicate facade paint for mineral substrates
- vapour-permeable, environmentally friendly
- bonds perfectly to the substrate
- resistant to biological growth

Substrate type:	mineral plasters, silicate plasters, cement-lime plasters, renovation plasters		
Absorption coefficient surface	< 0,46 kg/(m²/h)		
Coating drying time:	approximately 12 hours		
Approximate consumption per layer:	0,15 - 0,30 L/m²		
Mechanical application:	yes		
Water resistance / frost resistance:	yes / yes		ALC: NO
Maximum capacity:	up to 33 m <sup>2</sup> / 5 L	up to 100 m <sup>2</sup> / 15 L	
Packaging:	5 L bucket	15 L bucket	+25°C
On pallet / pallet weight:	80 pcs / 632 kg	33 pcs / 775 kg	₩ +5°C

COLOUR PALETTES from page 114

Farh

### **ELASTIC PAINT 007**



COLOUR PALETTES

from page 114

- flexible paint that bridges shrinkage cracks
- highly UV-resistant
- resistant to mould, algae

Substrate type:	plasters in thermal insulation systems, cement-lime, lime, mineral, silicone and silicate plasters, plasterboards	
Diffusion resistance coefficient $\mu$ :	≤ 20000	
Bridging Fig:	up to 0.5 mm	
Coating drying time:	approximately 12 hours	
Approximate consumption per layer:	0,20 - 0,30 L/m <sup>2</sup>	
Mechanical application:	yes	
Water resistance / frost resistance:	yes / yes	
Maximum capacity:	up to 33 m <sup>2</sup> / 5 L up to 100 m <sup>2</sup> / 1	
Packaging:	5 L bucket	15 L bucket
On pallet / pallet weight:	80 pcs / 632 kg	33 pcs / 775 kg



24 month







KREISEL



**NEW** 

12 month

**NEW** 

### **RENOVATION PRIMER FOR CRACKS 906**



- universal primer for thin-layer and mosaic plasters
- contains quartz aggregate, facilitates work
- very good covering properties, increases adhesion of plasters
- water- and frost-resistant

Types of plaster:	mineral, acrylic, silicone, silicate, silicate-silicone
Colour:	white or stained
Drying time:	4 h
Further work:	> 24 h
Consumption:	0,2- 0,3 kg/m <sup>2</sup>
Coverage:	up to 25 m <sup>2</sup> / 8 kg
Packaging:	8 kg bucket
On pallet / pallet weight:	80 pcs / 681 kg

### **RENOVATION MORTAR FOR STUCCO 941**



- universal mineral mortar
- for making drawn profiles
- for the reproduction of architectural details
- high adhesion

Substrate type:	old brick, stone, concrete, clay blocks, ceilings	
Grain size:	up to 0,5 mm	
Open porosity:	> 40%	
Layer thickness:	5-50 mm	
Colour:	white	
Consumption on average per 1 cm:	approx. 11 kg / m²	
Coverage (for 1 cm):	up to 2,3 m <sup>2</sup> / bag	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



### **RENOVATION REPAIR MORTAR 942**

- contains calcium and routes
- for the repair of brick and stone wefts
- low shrinkage
- good adhesion

Substrate type:	old brick and stone walls
Grain size:	up to 0,5 mm
Compressive strength:	≥ 5 MPa
Layer thickness:	up to 50 mm
Colour:	white, pearl, yellow, brown, brick-red
Consumption on average per 1 cm:	approx. 1,5 kg / m <sup>2</sup> /1 mm thickness
Packaging:	15 kg bucket
On pallet / pallet weight:	33 pcs / 525 kg













**NEW** 

### **RENOVATION MORTAR 943**



ZAPRAWA

- fine-grained, lime-cemented
- does not restrict vapour-permeability, hydrophobic
- for low, medium and high salt load areas
- high adhesion, complies with WTA guidelines

Substrate type:	old brick, stone, concrete, clay blocks, ceilings		
Grain size:	up to 0,5 mm		
Endurance category:	CS II		
Open porosity:	> 40%		
Layer thickness:	10 - 25 mm		
Colour:	grey		
Consumption on average per 1 cm:	approx. 12,7 kg / m <sup>2</sup>		
Coverage (for 1 cm):	up to 1,9 m <sup>2</sup> / bag		
Packaging:	25 kg bag		
On pallet / pallet weight:	48 pcs / 1230 kg		



### **RENOVATION POINTING MORTAR 944**

- fine-grained, lime-cemented
- vapour-permeable, water- and frost-resistant
- complies with WTA guidelines flexible, for smooth finishes
- old brick, stone, concrete, clay blocks, Substrate type: ceilings Grain size: up to 0,5 mm Compressive strength: ≥ 5 MPa Layer thickness: 10-20 mm Colour: beige, pearl, sand, grey Consumption on average: approx. 5,5 kg / m<sup>2</sup> Coverage (H 1 cm / D 1.5 cm): up to 4,5 m<sup>2</sup>/ bag Packaging: 25 kg bag On pallet / pallet weight: 48 pcs / 1230 kg



### REMONT LINE



solution recommended • solution not recommended

### **RENOVATION PRIMER 950**



- specialised silicate primer
- for levelling out absorption, reinforces the substrate
- based on water glass, vapour-permeable
- under silicate paints, plasters, glazes, mortars

On pallet / pallet weight:	120 pcs / 642 kg
Packaging:	5 L canister
Coverage:	up to 100 m <sup>2</sup> / 5 L
Approximate consumption per layer:	from 0,05 L/m <sup>2</sup> do 0,30 L/ m <sup>2</sup>
Colour when dry:	clear
Carrying out further work:	approx. 12 hours
Coating drying time:	approx. 2 - 4 hours
Substrate type:	cement-lime plaster, lime plaster, brick masonry, hollow bricks, blocks



KREISEL





### SILICONE IMPREGNATE 954



- impregnates absorbent exterior and interior surfaces
- water repellent and protects against water penetration
- protects against salt crystallisation
- reduces biological aggression and soiling

Substrate type:	cement-lime plaster, lime plaster, stone masonry, brick masonry, concrete, paint coatings	
Coating drying time:	approx. 2 hours at +20°C	
Water resistance:	after 4 hours	
Colour when dry:	colourless, matt	
Approximate consumption per layer:	from 0,2 L/m <sup>2</sup>	
Coverage:	up to 25 m²/ 5 L	
Packaging:	5 L canister	
On pallet / pallet weight:	120 pcs / 642 kg	12 mont





SZPACHLA

- thermal insulation plaster 20 -120 mm
- insulation of old walls
- non-flammable, for interior and exterior use
- saves energy

- saves ellergy	
Substrate type:	rough brickwork, hollow bricks
Grain size:	up to 2.0 mm
Endurance category:	CS I
Thermal conductivity coefficient:	0,071 W/ (mK)
Approximate consumption per 1 cm:	approx. 11,0 L/m <sup>2</sup>
Coverage:	approx. 2,7 m <sup>2</sup> / bag / 1 cm
Packaging:	30 L bag
On pallet / pallet weight:	40 pcs / 630 kg



#### **RENO REPAIR FILLER 952**

- white putty 3 20 mm
  - for restoration and filling of cavities
  - flexible, with reinforcing fibres
  - high adhesion and vapour-permeability







### NOWOŚĆ!

	<b>₽ 1</b> +5°C
12 months	

# **Concretes and screeds**





Table 25. Application range of screeds	EXTRA FLOOR 418	EXPRESS 419 QUICK-SETTING SELF-LEVELLING SCREED
Base	cement	cement
Layer thickness	1 - 50 mm	2 - 100 mm
Compressive strength	≥ 20 MPa	≥ 20 MPa
Bending strength	≥ 6 MPa	≥ 6 MPa
Possibility of entering	2 hours	2 hours
Ability to perform further work	18 hours	1 day
	SCOPE OF APPLICATION	
Underfloor heating	•	•
Thermal insulation (floating underlay)	•	•
Layer distribution (film)	•	•
Ground-bound layer	•	•
Terraces and balconies	•	•
Bathrooms and kitchens	•	•

solution recommended • solution not recommended



### **EXTRA FLOOR 418**



- with reinforcing fibres
- cementitious, quick-setting
- under tiles, panels, carpets
- for living rooms, bathrooms, kitchens, underfloor heating

Primer type:	bound to the substrate
Layer thickness:	1 - 50 mm
Entrance possibility:	after approx. 2 hours
Carrying out further work:	after min. 18 hours
Compressive strength:	≥ 20 MPa
Class:	CT-C20-F6
Consumption:	approx. 15 kg / m <sup>2</sup> / 1 cm
Coverage:	approx. 1,60 m <sup>2</sup> / bag / 1 cm
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### EXPRESS 419 QUICK-SETTING SELF-LEVELLING SCREED

- wide range of application
- cement
- low-shrinkage, under tiles, panels, carpets
- for living rooms, bathrooms, kitchens, public buildings

5,	, , , , , , , , , , , , , , , , , , , ,	
Primer type:	bound to the substrate	
Layer thickness:	2 - 100 mm	
Entrance possibility:	after approx. 2 hours	
Carrying out further work:	after min. 24 hours	71 1 1
Compressive strength:	≥ 20 MPa	//• +5°C
Class:	CT-C20-F6	
Consumption:	approx. 15 kg / m² / 1 cm	6 months
Coverage:	approx. 1,60 m <sup>2</sup> / bag / 1 cm	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



### CONCRETE AND SCREEDS

Table 26. Application range of concretes	EXPRESS CONCRETE B-50 447	CONCRETE B-30 446	QUICK-SETTING CONCRETE B-30 445	CONCRETE B-25	QUICK- -SETTING CONCRETE B-20 449	STRONG CONCRETE B-20	CONCRETE SCREED M-15 441
Layer thickness	25 - 1000 mm	25 - 100 mm	25 - 100 mm	10 - 100 mm	25 - 100 mm	25 - 80 mm	25 - 80 mm
Compressive strength	≥ 50 MPa	≥ 30 MPa	≥ 30 MPa	≥ 25 MPa	≥ 20 MPa	≥ 20 MPa	≥ 16 MPa
Flexural strength	6 MPa	6 MPa	6 MPa	5 MPa	5 MPa	4 MPa	4 MPa
Possibility entries	2 hours	48 hours	2 hours	48 hours	6 hours	48 hours	48 hours
Further work	1 day	28 days	1 day	28 days	5 days	28 days	28 days
			SCOPE OF AF	PPLICATION			
Underfloor heating	•	٠	•	٠	•	٠	•
Floating base	•	•	•	•	•	•	•
Separation layer (foil)	•	•	•	•	•	•	•
Bonded to the substrate	•	•	•	•	•	•	•
Terraces and balconies	•	٠	•	٠	•	٠	•
Bathrooms and kitchens	•	•	•	٠	•	•	•

solution recommended • solution not recommended

KREISEL



# CONCRETES AND SCREEDS

### QUICK-SETTING CONCRETE B-20 449



<ul> <li>concrete mortar wit</li> </ul>	h accelerated	setting time
---	---------------	--------------

- for terraces, balconies, , concrete elements
- water- and frost-resistant

durable

- dui able	
Primer type:	bonded to subfloor, on separating layer, floating, with underfloor heating
Layer thickness:	25 - 100 mm
Entrance possibility:	approx. 6 hours
Carrying out further work:	after min. 5 days
Compressive strength:	≥ 20 MPa
Class:	R2 in accordance with EN 1504-3: 2005
Consumption:	approx. 20 kg / m <sup>2</sup> / 1 cm
Coverage:	approx. 1,25 m <sup>2</sup> / bag / 1 cm
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### **EXPRESS CONCRETE B-50 447**



- fast-setting, high-strength mortar
- reinforced with basalt fibres
- for terraces, balconies, concrete elements, floor bases
- cementitious, water- and frost-resistant

Primer type:	bonded to subfloor, on separating layer, floating, with underfloor heating	
Layer thickness:	25 - 1000 mm	
Entrance possibility:	approx. 2 hours	
Carrying out further work:	after min. 24 hours	
Compressive strength:	≥ 50 MPa	
Class:	R2 in accordance with EN 1504-3: 2005	
Consumption:	approx. 20 kg / m <sup>2</sup> / 1 cm	
Wydajność:	approx. 1,25 m <sup>2</sup> / bag / 1 cm	
Packaging:	30 kg bag	
On pallet / pallet weight: 42 pcs / 1290 kg		
	1	



### CONCRETE B-30 446

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BE R.

- durable concrete mortar
- high strength, water and frost resistant
- for terraces, balconies, concrete elements, floor bases
- installation of fence posts

Primer type:	bonded to subfloor, on separating layer, floating, with underfloor heating	
Layer thickness:	25 - 100 mm	
Entrance possibility:	approx. 48 hours	
Carrying out further work:	after min. 28 days	
Compressive strength:	≥ 30 MPa	
Class:	R2 in accordance with EN 1504-3: 2005	
Consumption:	approx. 20 kg/m <sup>2</sup> / 1 cm	
Coverage:	approx. 1,25 m <sup>2</sup> / bag / 1 cm	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	







### **QUICK-SETTING CONCRETE B-30 445**



- rapid-setting concrete mortar
- rapid build-up of strength, curing starts after only 15 minutes
- for terraces, balconies, concrete elements, floor bases
- cementitious, water- and frost-resistant

Primer type:	bonded to subfloor, on separating layer, floating, with underfloor heating	
Layer thickness:	25 - 100 mm	
Entrance possibility:	approx. 2 hours	
Carrying out further work:	after min. 24 hours	
Compressive strength:	≥ 30 MPa	
Class:	R2 in accordance with EN 1504-3: 2005	
Consumption:	approx. 20 kg / m²/ 1 cm	
Coverage:	approx. 1,25 m <sup>2</sup> / bag / 1 cm	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



### CONCRETE B-25 442



- cementitious all-purpose underlay
- very good durability, water and frost resistant
- for terraces, balconies, concrete elements, floor bases

• under tiles, panels, parque	et	
Primer type:	bonded to subfloor, on separating layer, floating, with underfloor heating	
Layer thickness:	10 - 100 mm	
Entrance possibility:	approx. 48 hours	
Carrying out further work:	after min. 28 days	
Compressive strength:	≥ 25 MPa	
Class:	R2 wg EN 1504-3: 2005	
Consumption:	approx. 20 kg/m <sup>2</sup> / 1cm	
Coverage:	approx. 1,25 m <sup>2</sup> / bag / 1cm	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



### **STRONG CONCRETE B-20**



- universal concrete mortar
- durable, water and frost resistant
- for terraces, balconies and subfloors
- ideal for work in the home and garden

Primer type:	bonded to subfloor, on separating layer, floating, with underfloor heating
Layer thickness:	25 - 80 mm
Entrance possibility:	approx. 48 hours
Carrying out further work:	after min. 28 days
Compressive strength:	≥ 20 MPa
Class:	R2 in accordance with EN 1504-3: 2005
Consumption:	approx. 20 kg/m <sup>2</sup> / 1cm
Coverage:	approx. 1,25 m <sup>2</sup> / bag/ 1cm
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg





### **CONCRETE SCREED M-15 441**



- universal cement base 25 80 mm
- durable, water and frost resistant
- for floorings
- ideal for work in the home and garden

Primer type:	bonded to the substrate, on a layer of distribution board
Layer thickness:	25 - 80 mm
Entrance possibility:	approx. 48 hours
Carrying out further work:	after min. 28 days
Compressive strength:	≥ 16 MPa
Class:	CT-C16-F4
Consumption:	approx. 20 kg / m² / 1 cm
Coverage:	approx. 1,25 m <sup>2</sup> / bag / 1 cm
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



Table 27: Special mortars	POST MIX 448 READY CONCRETE FOR POSTS	LEVELLING MORTAR 428
Base	cement	cement
Grain size	up to 2 mm	up to 4 mm
Compressive strength	≥ 20 MPa	≥ 30 MPa
Layer thickness	2-50 mm	not applicable
Possibility of entering	24 hours	2 hours
Possibility of carrying out further work	48 hours	24 hours
Average consumption	approx. 18 kg/m²/1 cm	1 bag per hole 20x20x30 cm
Frost resistance	yes	yes
Waterproof	yes	yes
	SCOPE OF APPLICATION	
Wall levelling	٠	•
Floor levelling	•	•
Laying the subfloor	٠	•
Assembly of posts	•	•
Installation of retaining blocks, kerbs	•	•
Sub-base for paving etc.	•	•



### POST MIX 448 READY CONCRETE FOR POSTS



- concrete mixture FILL and POUR
- does not need to be mixed with water to install the posts
- quick setting, easy handling
- can be used as a screed, water- and frost-resistant

On pallet / pallet weight: 64 pcs / 1310 kg		
Packaging:	20 kg bag	
Coverage:	1 hole= 1 bag	
Class:	R2 in accordance with EN 1504-3: 2005	
Compressive strength:	≥ 30 MPa	
Obciążenie użytkowe:	after approx. 2 hours	
Stability of posts:	after approx. 2 hours	
Start of binding:	approx. 15 minutes	
Primer type:	montaż słupków, elementów betonowych	



### **LEVELLING MORTAR 428**



- with reinforcing fibres
- for levelling walls and floors before: screeding, tiling,
- thermal insulation
- high adhesion, easy to apply

ingli dellesioli, edsy to apply		
Primer type:	concrete, cement screed, cement plaster-lime, masonry walls	
Layer thickness:	2 - 50 mm	
Entrance possibility:	approx. 24 hours	
Carrying out further work:	after min. 2 days	<b>↓</b> 4.41
Compressive strength:	≥ 20 MPa	
Class:	CT-C20-F5	( <b>↓</b> +25°C )
Consumption:	approx. 18 kg/m <sup>2</sup> / 1 cm	+5°C 12 months
Coverage:	approx. 1,40 m <sup>2</sup> / bag / 1 cm	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	

# Masonry mortars





CLINKER MORTARS Page 43

Table 28: Properties of masonry mortars	POZMUR 115	POZMUR 116	POZMUR 117
Purpose	general purpose	general purpose	general purpose
Application temperature	from +5°C to +25°C		
Colour	grey	grey	grey
Joint thickness	5 - 20 mm	5 - 20 mm	5 - 20 mm
Shelf life after mixing at 20 °C	approx. 2 hrs.	approx. 2 hrs.	approx. 2 hrs.
Average consumption per 1 m <sup>2</sup> of masonry across the width of the brick	approx. 40 kg	approx. 40 kg	approx. 40 kg
Compressive strength after 28 days of hardening	≥ 5,0 N/mm²	≥ 10,0 N/mm²	≥ 15,0 N/mm²
Thermal conductivity coefficient $\boldsymbol{\lambda}$	≤ 1,11 W/m*K	≤ 1,11 W/m*K	≤ 1,11 W/m*K
Frost resistance	•	•	•
Waterproof	•	•	•

🔍 yes 🛛 🔵 no



### POZMUR 115 M5



- traditional masonry mortar
- universal, cement-based
- for inside and outside
- water- and frost-resistant

Type of masonry units:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete	
Compressive strength:	M5	
Shear strength of the joint:	0,15 N/mm <sup>2</sup>	
Reaction to fire:	A1	
Grain size:	0 - 2 mm	
Layer thickness:	5 - 20 mm	
Consumption:	for bricks, masonry thickness 12 cm -37 kg/m <sup>2</sup>	
Packaging:	25 kg bag	
On pallet / pallet weight:	48 pcs / 1230 kg	



#### **POZMUR 116 M10**



- strong masonry mortar
- malleable, easy to apply
- for inside and outside
- water- and frost-resistant

Type of masonry units:	ceramic bricks, silicate bricks, hollow bricks,
Community of an attack	blocks, cellular concrete blocks, concrete
Compressive strength:	M10
Shear strength of the joint:	0,15 N/mm <sup>2</sup>
Reaction to fire:	A1
Grain size:	0 - 2 mm
Layer thickness:	5 - 20 mm
Consumption:	for bricks, masonry thickness 12 cm -37 $kg/m^2$
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### POZMUR 117 M15

ZAPRAWA

M15

- structural masonry mortar
- high mechanical strength
- ideal for foundations and structures
- water- and frost-resistant















8	TARS
	MASONRY MORTARS
	SONR
	MA

Tabela 29. Properties of thin-bed mortars	MURLEP 125	MURLEP-B 126	MURLEP 127	MURLEP-B 128	MURLEP 129
Purpose		for thin jointed mas	onry of aerated concr	ete blocks, silicates	
Layer thickness	1 - 3 mm	1 - 3 mm	1 - 3 mm	1 - 3 mm	1 - 3 mm
Application temperature	+5°C to 25°C	+5°C to 25°C	+5°C to 25°C	+5°C to 25°C	+5°C to 25°C
Shelf life	approx. 3 hrs (temp.20°C)	approx. 3 hrs (temp.20°C)	approx. 3 hrs (temp.20°C)	approx. 3 hrs (temp.20°C)	approx. 3 hrs (temp.20°C)
Colour	grey	white	grey	white	grey
Class	М5	М5	M10	M10	M15
Compressive strength	≥ 5,0 N/mm²	≥ 5,0 N/mm²	≥10,0 N/mm²	≥10,0 N/mm²	≥15,0 N/mm²
Reaction to fire:	A1	A1	A1	A1	A1
Grain size:	0 - 0,5 mm	0 - 0,5 mm	0 - 0,5 mm	0 - 0,5 mm	0 - 0,5 mm
Frost resistance	•	•	•	•	•
Waterproof	•	•	•	•	•
Consumption for a block width	<ul> <li>12 cm - approx. 3 kg/m<sup>2</sup></li> <li>24 cm - approx. 6 kg/m<sup>2</sup></li> <li>36 cm - approx. 9 kg/m<sup>2</sup></li> <li>tongue-and-groove blocks the consumption will be lower by approx. 20%</li> </ul>				

🔍 yes 🛛 🗧 no



### **MURLEP 125 M5**



- thin-bed masonry mortar
- flexible, cement-based
- easy to apply
- water- and frost-resistant

Type of masonry units:	cellular concrete blocks, silicate blocks
Compressive strength:	M5
Shear strength of the joint:	0,30 N/mm <sup>2</sup>
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	up to 3 mm
Consumption:	for 24 cm cellular concrete - approx. 6 kg/m <sup>2</sup>
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### MURLEP-B 126 M5



- white, thin-bed masonry mortar
- easy to apply, cement-based
- improves the aesthetics of the work Easy to use
- water- and frost-resistant

Type of masonry units:	cellular concrete blocks, silicate blocks
Compressive strength:	М5
Shear strength of the joint:	0,30 N/mm <sup>2</sup>
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	up to 3 mm
Consumption:	for 24 cm cellular concrete - approx. 6 kg/m <sup>2</sup>
Packaging:	25 kg sack
On pallet / pallet weight:	48 pcs / 1230 kg



### **MURLEP 127 M10**

MURLEP ZAPRAWA

MURARSKA

- reinforced thin-bed masonry mortar
- high mechanical strength
- highly adhesive, easy apply
- water- and frost-resistant

Type of masonry units:	cellular concrete blocks, silicate blocks
Compressive strength:	M10
Shear strength of the joint:	0,30 N/mm <sup>2</sup>
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	up to 3 mm
Consumption:	for 24 cm cellular concrete - approx. 6 kg/m²
Packaging:	25 kg sack
On pallet / pallet weight:	48 pcs / 1230 kg





### **MURLEP-B 128 M10**



- white reinforced thin-bed masonry mortar
- high mechanical strength
- highly adhesive, easy apply
- water- and frost-resistant

Type of masonry units:	cellular concrete blocks, silicate blocks
Compressive strength:	M10
Shear strength of the joint:	0,30 N/mm <sup>2</sup>
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	up to 3 mm
Consumption:	for 24 cm cellular concrete - approx. 6 kg/m <sup>2</sup>
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



### **MURLEP 129 M15**



- reinforced thin-bed masonry mortar
- for masonry with high strength requirements
- high-adhesion structural mortar
- water- and frost-resistant

Type of masonry units:	cellular concrete blocks, silicate blocks
Compressive strength:	M15
Shear strength of the joint:	0,30 N/mm <sup>2</sup>
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	up to 3 mm
Consumption:	for 24 cm cellular concrete - approx. 6 kg/m <sup>2</sup>
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg



# **Plaster mortars**





PLASTER MORTARS
PLAST

Table 30: Properties of exterior cement-lime plasters	500	501	511L	550	560
Scope of application	5 - 15 mm	5 - 20 mm	5 - 15 mm	4 - 5 mm	8 - 20 mm
Grain size max.	0,5 mm	1,4 mm	0,5 mm	1,4 mm	1,4 mm
Colour	Grey	Grey	White	Grey	Grey
Thermal conductivity coefficient λ (W/m*K)	≤ 0,61	< 0,61	< 0,45	≤ 1,11	≤ 1,11
Strength category	CSII	CSIII	CSII	CSIV	CSII
Frost resistance	•	•	•	•	•
Waterproof	•	•	•	•	•
Consumption per 1 m <sup>2</sup> / per 1 cm	12,5 kg	13,0 kg	12,5 kg	6,0 kg na 1 m²	18,0 kg
Silo technology	•	٠	•	•	•

🔍 yes 🛛 🔍 no

Table 31. Properties of interior cement-lime plasters	KORASSILL STATE SSO 8 EXPERT			S61	S25 TYNK SUG S
	530	503SL	561L	561	525
Scope of application	8 - 25 mm	5 - 25 mm	5 - 25 mm	5 - 25 mm	5 - 25 mm
Grain size max.	0,5 mm	0,5 mm	0,6 mm	0,6 mm	0,8 mm
Colour	Grey	Grey	Grey	Grey	Grey
Thermal conduc- tivity coefficient λ (W/m*K)	< 0,45	< 0,45	< 0,45	< 0,61	< 0,61
Category endurance	CSII	CSI	CSII	CSII	CSII
Frost resistance	•	•	•	•	•
Waterproof	•	•	•	•	•
Consumption per 1 m <sup>2</sup> / per 1 cm	14,0 kg	10,0 kg	11,0 kg	14,0 kg	14 kg
Silo technology			•	•	•

🔹 yes 🔶 no



### **SMOOTH MACHINE-APPLIED PLASTER 500**



501

TYNK

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- cement-lime, frost-resistant
- single-layer, fine-grained
- high adhesion and mechanical strength
- indoors and outdoors, for wet rooms

Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete
Compressive strength:	CS II
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	5 - 15 mm
Consumption:	approx. 12,5 kg / m <sup>2</sup> / 1 cm
Coverage:	approx. 2,3 m <sup>2</sup> / bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg



### **MACHINE-APPLIED PLASTER 501**

- cement-lime, frost-resistant plaster
- highly durable ideal for external applications
- excellent base coat under ceramic tiles
- vapour-permeable suitable for unheated and wet rooms

On pallet / pallet weight:	40 pcs / 1230 kg
Packaging:	30 kg bag
Coverage:	approx. 2,2 m <sup>2</sup> / bag
Consumption:	approx. 13,0 kg / m <sup>2</sup> / 1 cm
Layer thickness:	5 - 20 mm
Grain size:	0 - 1,4 mm
Reaction to fire:	A1
Compressive strength:	CS III
Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete



### **LIGHT WHITE PLASTER 511L**

- cement-lime, frost-resistant
- high performance, contains perlite
- high surface smoothness
- vapour-permeable

Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete
Compressive strength:	CS II
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	5 - 15 mm
Consumption:	approx. 12,5 kg / m² / 1 cm
Coverage:	approx. 2,3 m <sup>2</sup> / bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg







### **CEMENT-BASED DASH COAT 550**



- traditional, frost-resistant
- increases the adhesion of applied cement-lime plaster
- for manual and machine application
- vapour-permeable, waterproof

On pallet / pallet weight:	40 pcs / 1230 kg
Packaging:	30 kg bag
Coverage:	approx. 5,0 m <sup>2</sup> / bag
Consumption:	approx. 6-8 kg / m <sup>2</sup> / 1 cm
Layer thickness:	4 - 5 mm
Grain size:	0 - 1,4 mm
Reaction to fire:	A1
Compressive strength:	CS IV
Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete



### **POZTYNK 560**



- traditional hand-applied plaster mortar
- easy to apply
- Ideal underlay for ceramic tiles and for levelling substrates
- water- and frost-resistant

Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete
Compressive strength:	CS II
Reaction to fire:	A1
Grain size:	0 - 1,4 mm
Layer thickness:	8 - 20 mm
Consumption:	approx. 18,5 kg / m² / 1 cm
Coverage:	approx. 1,35 m <sup>2</sup> / bag
Packaging:	25 kg bag
On pallet / pallet weight:	48 pcs / 1230 kg





### **EXPERT CEMENT-LIME PLASTER 530**



503sı

TYNK

SUPER

8

PLASTER MORTARS

- fine-grained
- smooth surface after finishing
- waterproof, suitable for indoor use
- vapour-permeable

Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete
Compressive strength:	CS II
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	8-25 mm
Consumption:	approx. 14,0 kg / m <sup>2</sup> / 1 cm
Coverage:	approx. 2,1 m <sup>2</sup> / bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg



### SUPER LIGHT MACHINE-APPLIED PLASTER 503SL

- cement-lime
- very high performance, easy to process
- ideal for damp and unheated rooms
- vapour-permeable, waterproof

Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete
Compressive strength:	CS I
Reaction to fire:	A1
Grain size:	0 - 0,5 mm
Layer thickness:	5-25 mm
Consumption:	approx. 10,0 kg / m² / 1 cm
Coverage:	approx. 3,0 m <sup>2</sup> / bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg



### LIGHT MACHINE-APPLIED PLASTER 561L

- cement-lime plaster
- for producing smooth plasters, with perlite
- waterproof, for interiors and damp rooms
- vapour-permeable

On pallet / pallet weight:	40 pcs / 1230 kg
Packaging:	30 kg bag
Coverage:	approx. 2,7 m <sup>2</sup> / bag
Consumption:	approx. 11,0 kg / m <sup>2</sup> / 1 cm
Layer thickness:	5 - 25 mm
Grain size:	0 - 0,6 mm
Reaction to fire:	A1
Compressive strength:	CS II
Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, cellular concrete blocks, concrete
Culture to the sec	ceramic bricks, silicate bricks, hollow bric







# ® BLASTER MORTARS

### **MACHINE-APPLIED PLASTER 561**



- fine lime cement plaster
- for making smooth plasters
- waterproof, suitable for indoor use
- vapour-permeable, easy to handle

· · · ·	
Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, aerated concrete blocks, concrete
Compressive strength:	CS II
Reaction to fire:	A1
Grain size:	0 - 0,6 mm
Layer thickness:	5 - 25 mm
Consumption:	approx. 14,0 kg / m² / 1 cm
Coverage:	approx. 2,1 m <sup>2</sup> / bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg



### **MACHINE-APPLIED PLASTER 525**



- cement-lime plaster
- for machine and manual application
- economical and easy to apply
- vapour-permeable and efficient

Substrate type:	ceramic bricks, silicate bricks, hollow bricks, blocks, aerated concrete blocks, concrete
Compressive strength:	CS II
Reaction to fire:	A1
Grain size:	0 - 0,8 mm
Layer thickness:	5 - 25 mm
Consumption:	approx. 14.0 kg/m² per 1 cm layer
Coverage:	approx. 2.1 m <sup>2</sup> per bag
Packaging:	30 kg bag
On pallet / pallet weight:	40 pcs / 1230 kg



# Supporting materials





### SCAFFOLDING NET



Polypropylene scaffold net with gauze weave

white

•

•

٠

- size 13,5 m x 2,6 m
- packed in sets of 5 pcs/kit
- wrapped in stretch film and sealed with tape
- additionally 50 plastic fasteners nets

• weight 100 g/m<sup>2</sup>

### **COLOUR PATTERN BOOK - COLOUR DESIGN / TRENDS**



Colour palette

FARMS: • ACRYLIC - SILICATE - SILICONE - SILICATE-SILICONE

PLASTERS: • ACRYLIC - SILICATE - SILICONE - SILICATE-SILICONE

### **GREY/WHITE TROUSERS**



Made of canvas material: 65% polyester/35% cotton, 250 g/m², grey-grant colour with 11 cm logo on side pocket of trousers.

• Available sizes: L, XL, XXL

# Colour charts and colour ranges



## MOSAIC PLASTER PATTERN 051



\* The tables are only an illustrative representation of the product

### MOSAIC PLASTER PATTERN 051



### MOSAIC PLASTER PATTERN 051



GGGN

CCUO

BBIK

PCBG

## MOSAIC PLASTER PATTERN 051 NATURAL


# ARCHITECTURAL CONCRETE 055 - EXAMPLE STRUCTURES



Concrete pattern: colour 27404



Concrete pattern: colour 27416



Concrete pattern: colour 27108



Concrete pattern: colour 27333



Concrete pattern: colour 27187



Concrete pattern: colour 28070

# FACADE PANEL COLOUR BOOK







Bleached oak









Light golden oak

Golden oak



Winchester

Dark walnut



Dark golden oak

Mahogany





Rosewood

Wenge

FLEX 740 AND NANOTECH 730 GROUT COLOUR CHART \*



### NANOTECH 720 SILICONE COLOUR CHART \*



## BRICK AND STONE JOINT COLOUR CHART 704



### 701 CLINKER MORTAR COLOUR CHART \*



### COLOUR CHART POZMUR-KL NANO 130 MORTAR \*

WHITE	LIGHT GRAY	GREY	GRAPHITE
SAND	BLACK		





# RANGE OF COLOURS Color Design

Symbol descriptions:



	۵		Ξ		۵		۵		0
20002	63% A	20006	68% A B	20010	71% ABC	20014	76% ABCD	20018	80% A B C D
			Π		0		۵		0
20077	61% A B	20081	69% A B C D	20085	74% ABCD	20089	78% ABCD	20093	82% A B C D
			۵		۵		٥		٥
20152	67% A	20156	75% ABCD	20160	81% ABCD	20164	83% A B C D	20168	85% A B C D
							٥		
20227	68% A	20231	73% A	20235	78% A C	20239	83% A B C D	20243	87% ABCD
							٥		ם
20302	59% A B	20306	69% A B C D	20310	78% A B C D	20314	81% A B C D	20318	84% A B C D
									D
20377	56% ABC	20381	65% A B C D	20385	70% A B C D	20389	80% A B C D	20393	82% A B C D
20402	67% A	20406	74% A	20410	81% A C	20414	84% A B C D	20418	88% ABCD
20452	45% A	20456	57% <b>A B C</b>	20460	66% A B C D	20464	82% A B C D	20468	83% A B C D
20527	45% A B C	20531	63% A B C D	20535	70% ABCD	20539	82% A B C D	20543	85% A B C D
20602	37% A C	20606	51% <b>A B C D</b>	20610	63% A B C D	20614	76% ABCD	20618	80% A B C D

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21027	48% <b>A B C</b>	21031	61% <mark>A B C D</mark>	21035	70% <mark>A B C D</mark> II	21039	72% <mark>A B C D</mark> I	21043	79% <mark>ABCD</mark>
21102	46% <b>A</b>	21106	62% A C	21110	68% A C	21114	75% <b>A C</b>	21118	82% A B C
21177	30% A C	21181	48% <mark>A B C D</mark> II	21185	60% A B C D	21189	71% ABCD	21193	80% A B C D
21252	39% <b>A</b>	21256	46% <b>A</b>	21260	52% A C	21264	61%	21268	67% A
21252		21230	40% <mark>A</mark>	21200		21204		21200	07% <b>A</b>
21327	36% A	21331	55% A C	21335	63% A C	21339	74% <mark>A B C D</mark>	21343	78% <mark>A B C D</mark>
21402	21% A C	21406	35% <mark>A C</mark>	21410	47% A C	21414	59% A C	21418	74% A B C D
21477	33% A	21481	47% A C	21485	54% A B C D	21489	64% A B C D	21493	77% <b>A B C D</b>
							٥		
21552	34% <b>A</b>	21556	47% A C	21560	61% A C	21564	65% A C	21568	77% ABCD

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22053	32% <mark>A</mark>	22057	47% <b>A C</b>	22061	59% A	22065	71%	22069	78% <b>A B C D</b>
	IV								
22128	21%	22132	30% A	22136	42%	22140	51% A C	22144	64% A C
	IV		Ш				٥		
22203	18% A	22207	25% A	22211	33% A	22215	58% A	22219	76%
22278	12% A	22282	26% A	22286	38% A	22290	58% <mark>A C</mark>	22294	73%
					_		_		_
22353	26% A C	22357	38% A	22361	55% A	22365	66% A	22369	73% A
22428	18% <mark>A C</mark>	22432	34% A B C D	22436	43% A B C D	22440	57% ABCD	22444	72% ABCD
00500		00505		00544		00515		00540	
22503	22% A B C D	22507	34% A B C D	22511	48% A B C D	22515	66% A B C D	22519	74% ABCD
22578	17% A C	22582	34% A C	22586	42% A B C D	22590	64% A B C D	22594	76% <b>A B C D</b>
22370		22002		22000		22090		22034	
22653	11% A	22657	21%	22661	26%	22665	38% 🗛	22669	55%

	IV				0	۵
23003	15% 🗛	23007	26% <b>A 23011</b>	39% <b>A 23015</b>	58% <b>A 23019</b>	73%
	IV					
23078	11%	23082	26% <b>A 23086</b>	43% <b>A 23090</b>	53% <b>A</b> 23094	73%
			•	•	a	D
23153	13% A	23157	54% A C 23161	66% A C 23165	76% 🔺 📄 23169	80% A
					٥	
23228	11% A	23232	31% A 23236	56% A C 23240	69% <b>A 23244</b>	73%
						D
23303	16% A	23307	32% A 23311	48% <b>A C 23315</b>	69% <b>A 23319</b>	80% A C
	11					
23378	9% <b>A</b>	23382	28% <b>A 23386</b>	52% <b>A 23390</b>	70% <b>A 23394</b>	75% ABCD
					0	۵
23453	18% A C	23457	26% <b>A 23461</b>	46% <b>A 23465</b>	58% <b>A 23469</b>	69% ABD
23528	16% <b>A</b>	23532	28% A B C D 23536	47% <b>A B C D</b> 23540	64% <b>A B C D</b> 23544	78% <b>A B C D</b>

									0
24028	15% <b>A</b>	24032	36% A	24036	53% A B	24040	60% A B C D	24044	75% ABCD
24020		24002		24030		2-10-10		24044	
24103	30% A	24107	35% ABCD	24111	46% <b>A B C D</b>	24115	60% A B C D	24119	72% A B C D
	Ξ		•		Π				٥
24178	17% A B	24182	28% A B	24186	36% A B C D	24190	57% ABCD	24194	74% ABCD
24253	32% A B	24257	38% A B C	24261	48% ABCD	24265	61% A B C D	24269	77% ABCD
							Ξ		П
24328	21% <b>A</b>	24332	27% A	24336	34% A	24340	40% A B C D	24344	56% A B C D
					Ш		Ш		٥
24403	15% A	24407	22% A	24411	34% A	24415	46% A	24419	62% A B C D
	ш								
24478	32% <b>A</b>	24482	49% A B C D	24486	57% A B C D	24490	75% A B C D	24494	77% A B C D
							٥		٥
24553	30% A	24557	38% A C	24561	48% <b>A B C D</b>	24565	66% A B C D	24569	77% ABCD
					1				1
0.4000		0.4000		0.4000		04040		04044	
24628	12% A	24632	19% A	24636	27% A	24640	40% A	24644	56% A
24703	37% <b>A B</b>	24707	46% <b>A B C</b>	24711	58% A B C D	24715	69% A B C D	24719	81% <b>A B C D</b>
	Ш		D				٥		٥
24778	43% A	24782	49% ABC	24786	59% ABCD	24790	72% A B C D	24794	84% ABCD
			11		Π				0
25054	29% A B	25058	36% A B C D	25062	49% A B C D	25066	67% A B C D	25070	79% ABCD
									<b></b>
25129									
	27% A B	25133	36% A B C D	25137	51% <b>A B C D</b>	25141	70% ABCD	25145	82% <b>A B C D</b>
	27% A B	25133	36% A B C D	25137	51% ABCD	25141	70% ABCD	25145	82% A B C D
25204	25% A	25133 25208	38% A B C D		44% A B C D		59% A B C D		78% A B C D
25204			٥		٥				D
25204 25279	25% A		38% A B C D		44% A B C D	25216	59% A B C D	25220	78% A B C D
	25% A	25208	38% A B C D	25212	44% ABCD	25216	59% A B C D II	25220	78% A B C D I
25279		25208	38% A B C D 33% A C U	25212	44% A B C D 11 43% A C 11 13 11 11 11 11 11 11 11 11	25216 25291	59% A B C D II 60% A B	25220 25295	78% A B C D 1 71% A B
	25% A	25208 25283	38% A B C D J 33% A C	25212 25287	44% A B C D 11 43% A C	25216 25291	59% A B C D 11 60% A B	25220 25295	78% <b>A B C D</b> 1 71% <b>A B</b>
25279 25354	25% A	25208 25283 25358	38% A B C D 1 33% A C 1 33% A C 11 49% A B C 11	25212 25287 25362	44% A B C D 11 43% A C 11 66% A B C D 11	25216 25291 25366	59% A B C D II 60% A B I 76% A B C D I	25220 25295 25370	78% A B C D T 71% A B 1 81% A B C D
25279	25% A	25208 25283	38% A B C D 33% A C 33% A C 1 33% A C 1 49% A B C	25212 25287	44% A B C D 43% A C 1 66% A B C D	25216 25291 25366	59% A B C D II 60% A B I 76% A B C D I	25220 25295 25370	78% A B C D 71% A B 1 81% A B C D
25279 25354 25429	25% A	25208 25283 25358 25433	38% A B C D 33% A C U 33% A C U 49% A B C U 49% A B C U 100 100 100 100 100 100 100 10	25212 25287 25362 25437		25216 25291 25366 25441	59% A B C D 10 60% A B 76% A B C D 10 79% A B C D 1	25220 25295 25370 25445	78% A B C D 71% A B 1 81% A B C D 81% A B C D 81% A B C D
25279 25354		25208 25283 25358	38% A B C D J 33% A C J 49% A B C U 48% A B C	25212 25287 25362	44% A B C D 11 43% A C 1 11 43% A C 1 11 66% A B C D 11 61% A B C D	25216 25291 25366 25441	59% A B C D 11 60% A B 1 76% A B C D 1 76% A B C D	25220 25295 25370 25445	78% A B C D 71% A B 1 81% A B C D 81% A B C D 81% A B C D
25279 25354 25429 25504	L 25% A 25% A 33% A C	25208 25283 25358 25433 25508	38% A B C D 33% A C U 33% A C U 49% A B C U 48% A B C U	25212 25287 25362 25437 25512	44% A B C D (1) 43% A C (1) (1) 43% A C (1) (1) 66% A B C D (1) 61% A B C D (1) 65% A C (1) (1) (1) (1) (1) (1) (1) (1)	25216 25291 25366 25441 25516	59%       A       B       C       D         59%       A       B       C       D         60%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         79%       A       B       C       D         82%       A       B       C       D	25220 25295 25370 25445 25520	78%       A       B       C       D         71%       A       B       C       D         81%       A       B       C       D         86%       A       B       C       D         11       11       11       11
25279 25354 25429	1 25% A 1 25% A 1 25% A 1 1 33% A C 1 1 1 36% A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25208 25283 25358 25433	38%       A       B       C       D         38%       A       B       C       D         33%       A       C       II         33%       A       B       C       III         49%       A       B       C       III         49%       A       B       C       III         56%       A       III       III         40%       A       III       IIII	25212 25287 25362 25437		25216 25291 25366 25441 25516	59%       A       B       C       D         59%       A       B       C       D         60%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         79%       A       B       C       D         82%       A       B       C       D         58%       A       S       S       S	25220 25295 25370 25445 25520	78%       A       B       C       D         71%       A       B       C       D         71%       A       B       C       D         81%       A       B       C       D         86%       A       B       C       D         86%       A       B       C       D         65%       A       C       C       D
25279 25354 25429 25504	L 25% A 25% A 33% A C	25208 25283 25358 25433 25508	38%       A       B       C       D         38%       A       B       C       D         33%       A       C       III         33%       A       B       C       III         49%       A       B       C       III         49%       A       B       C       III         56%       A       III       IIII         40%       A       IIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	25212 25287 25362 25437 25512 25587	44% A B C D (1) 43% A C (1) (1) 43% A C (1) (1) 66% A B C D (1) 61% A B C D (1) 65% A C (1) (1) (1) (1) (1) (1) (1) (1)	25216 25291 25366 25441 25516	59%       A       B       C       D         59%       A       B       C       D         60%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         79%       A       B       C       D         82%       A       B       C       D	25220 25295 25370 25445 25520	78%       A       B       C       D         71%       A       B       C       D         81%       A       B       C       D         86%       A       B       C       D         11       11       11       11
25279 25354 25429 25504	L 25% A 1 25% A 1 1 25% A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25208 25283 25358 25433 25508	38%       A B C D         38%       A B C D         33%       A C M C         49%       A B C         40%       A D C         40%       A D C         40%       A D C         11       11         33%       A B C D	25212 25287 25362 25437 25512 25587		25216 25291 25366 25441 25516 25591	59%       A       B       C       D         59%       A       B       C       D         60%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         79%       A       B       C       D         82%       A       B       C       D         58%       A       C       D         68%       A       B       C       D	25220 25295 25370 25445 25520 255595	78%       A B C D         78%       A B C D         71%       A B C D         81%       A B C D         10       1         81%       A B C D         10       1         86%       A B C D         10       1         86%       A B C D         10       1         86%       A B C D         10       1         10       1         10       1         11       1         12       1         13       1         14       1         15       1         165%       1         165%       1         17       1         18       1         19       1         10       1         10       1         10       1         10       1         10       1         10       1         11       1
25279 25354 25429 25504 25579	L 25% A 1 25% A 1 25% A 1 1 33% A C 1 1 36% A 1 1 36% A 1 1 1 1 1 1 1 1 1 1 1 1 1	25208 25283 25358 25433 25508 25508	38%       A       B       C       D         38%       A       B       C       D         33%       A       C       III         33%       A       B       C       III         49%       A       B       C       III         49%       A       B       C       III         56%       A       III       IIII         40%       A       IIII       IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	25212 25287 25362 25437 25512 25587		25216 25291 25366 25441 25516 25591	59%       A B C D         59%       A B C D         60%       A B C D         76%       A B C D         79%       A B C D         82%       A B C D         58%       A D	25220 25295 25370 25445 25520 255595	78%       A B C D         71%       A B C D         81%       A B C D         10       1         81%       A B C D         10       1         81%       A B C D         10       1         86%       A B C D         10       1         86%       A B C D         11       1         12       1         13       1         14       1         15       1         15       1
25279 25354 25429 25504 25579		25208 25283 25358 25433 25508 25508	38%       A       B       C       D         38%       A       B       C       D         33%       A       C       D         33%       A       B       C       D         49%       A       B       C       D         49%       A       B       C       D         48%       A       B       C       D         56%       A       D       D       D         33%       A       B       C       D         33%       A       B       C       D         33%       A       B       C       D         56%       A       B       C       D         56%       A       C       C       D	25212 25287 25362 25437 25512 25587		25216 25291 25366 25441 25516 25591 25666	59%       A       B       C       D         59%       A       B       C       D         60%       A       B       C       D         60%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         79%       A       B       C       D         82%       A       B       C       D         58%       A       D       D       D         68%       A       B       C       D         68%       A       B       C       D         74%       A       B       C       D	25220 25295 25370 25445 25520 25595 25595	
25279 25354 25429 25504 255579 255654	L 25% A 1 25% A 1 1 25% A 1 1 1 1 25% A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25208 25283 25358 25433 25508 25583 25583	38%       A       B       C       D         38%       A       B       C       D         33%       A       C       D         33%       A       B       C       D         49%       A       B       C       D         49%       A       B       C       D         49%       A       B       C       D         40%       A       D       D       D         40%       A       D       D       D         33%       A       B       C       D         33%       A       B       C       D         10       33%       A       B       C       D	25212 25287 25362 25437 25512 25587 25562		25216 25291 25366 25441 25516 25591 25666	59%       A       B       C       D         59%       A       B       C       D         60%       A       B       C       D         76%       A       B       C       D         76%       A       B       C       D         79%       A       B       C       D         68%       A       S       C       D         68%       A       B       C       D         68%       A       B       C       D	25220 25295 25370 25445 25520 25595 25595	78%       A B C D         71%       A B C D         71%       A B C D         81%       A B C D         81

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26004	25% A	26008	33% A B C	26012	46% A B C D	26016	51% ABCD	26020	67% <mark>A B C D</mark>
26079	18% A B C	26083	32% A B C D	26087	52% ABCD	26091	60% <mark>A B C D</mark>	26095	77% ABCD
00454	18% <b>A</b> B	26158		26162		00100		26170	
26154	18% A B	20158	28% ABC	20102	38% A B C D	20100	46% A B C D	26170	65% A B C D
26229	15% <mark>A</mark>	26233	22% ABC	26237	37% <mark>A B C D</mark> I	26241	49% ABCD	26245	65% ABCD
26304	30% A B C D	26308	43% ABCD	26312	61% A B C D	26316	67% <mark>A B C D</mark> I	26320	77% ABCD
26379	27% <mark>A B C D</mark> II	26383	36% A B C D	26387	56% A B C D	26391	68% <mark>A B C D</mark> I	<b>26</b> 395	76% <b>A B C D</b>
26454	18% A C	26458	28% ABC	26462	49% A B C D	26466	60% <mark>A B C D</mark> I	26470	77% ABCD
26529	15% A C	26533	21% A B	26537	29% A B C D	26541	50% <mark>A B C D</mark> I	26545	75% ABCD
26604	11% A C	26608	23% A B C	26612	37% A B C D	26616	57% <mark>A B C D</mark>	26620	68% A B C D
27029	14% A B	27033	21% A B C	27037	32% A B C D	27041	47% A B C D	27045	64% A B C D
21025		21033		21001		21041		21045	
27104	13% A	27108	26% A B C D	27112	42% A B C D	27116	51% ABCD	27120	69% ABCD
27179	17% A	27183	30% A B C D I	27187	45% A B C D	27191	54% ABCD	27195	70% ABCD
27254	11% A C	27258	21% A C	27262	30% <mark>A C</mark>	27266	40% A B C D	27270	64% A B C D
27329	13% A	27333	31% ABC	27337	44% A B C D	27341	51% ABCD	27345	62% A B C D
27404	14% A B	27408	31% ABC	27412	49% A B C D	27416	55% ABCD	27420	64% A B C D
27479	14% ABC	27483	33% A B C D	27487	51% ABCD	27491	63% <mark>A B C D</mark> I	27495	82% ABCD
27554	26% A B C D	27558	41% <b>A B C D</b>	27562	53% ABCD	27566	66% <mark>A B C D</mark>	27570	76% <b>A B C D</b>
28010	85% A B C D	28012	80% A B C D	28014	84% A B C D	28016	85% A B C D	28018	1 85% A B C D
28020	84% A B C D	28026	85% A B C D	28028	86% A B C D	28030	75% A B C D	28036	80% A B C D
28038	83% ABCD	28040	75% <mark>A B C D</mark> I	28046	80% A B C D I	28048	84% ABCD	28050	78% <mark>A B C D</mark>
28056	82% ABCD	28058	84% <mark>ABCD</mark> I	28060	80% <mark>A B C D</mark> I	28066	82% ABCD	28068	84% ABCD
28070	79% <mark>A B C D</mark> 1	28076	83% ABCD	28078	84% ABCD	28080	83% <b>A B C D</b>	28086	84% ABCD

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28088 85% A B C D

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