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PAGEL[®]

SPEZIAL-BETON



KA 20

CHANNEL MORTAR



- Sewage treatment plants
- Suitable for use on walls and floors
- Channel repair

*...we produce great grout
— worldwide!*

PROPERTIES

- Polymer-modified cement-bound ready-to-use grout
- for repairing concrete parts and surfaces
- Suitable for manual application to both vertical, overhead and horizontal surfaces
- Can be sprayed onto vertical and overhead surfaces
- Extremely resistant, to some extent also against strong chemical attack
- Largely resistant to sulphate (industrial use) and ammonium (agricultural use)
- Ready-for-use
- Can be pumped
- Produced in compliance with all relevant applicable standards and directives
- Produced in compliance with ISO 9001

FIELDS OF APPLICATION

Beschichtung und Instandsetzung von:

- Sewage treatment plants
- Interceptor sewers
- For grouting masonry joints
- Waste water systems
- Areas subject to high chemical loads
- Areas and foundations subject to exposure to high sulphate loads
- Rainwater overflow tanks
- Collecting basins
- Shaft construction
- For coating walk-in sewers
- For levelling sewer walls, floors and ceilings
- Restoring bottom slabs



PRODUCTS

- MSO2 PAGEL CORROSION PROTECTION (0-0,2 mm)
- KA05 PAGEL CHANNEL SCREEDING COMPOUND (0,1-0,5 mm)
- KA 20 PAGEL CHANNEL MORTAR (0,1-2,0 mm)

PROCESSING

SUBSURFACE: Clean thoroughly; remove all loose objects, objects that might prevent adhesion, and cement slurries by hydraulic blasting or similar until the underlying grain structure has been exposed; to a surface roughness of approx. 1.5 mm; the substrate must have sufficient pull-off strength (approx. 1.5 N/mm²). Dampen substrate until saturation; remove rust from exposed reinforcing steel and coat with MSO2 PAGEL KORROSIONSSCHUTZ (CORROSION PROTECTION) without leaving any gaps.

MIXING: Pour all of the water (max. 11%, which corresponds to 2.75 l per bag), with the exception of a small amount, into the compulsory mixer. Add the dry mortar and mix for approx. 3 minutes. Add remaining water and mix for another 2 minutes.

BONDING LAYER: Mix small quantities of KA 20 with no more than 11% water to create a slurry for use as a bonding layer and brush deep into the pores of the substrate. When applying the mixture by spraying, no bonding layer is needed.

APPLICATION: Apply KA 20 while in a soft state onto the bonding agent before it has set; distribute evenly and smoothen. If necessary, please consult with a specialist for advice on applying the mixture by spraying.

FINISH: Protect surface from wind, drafts and premature water evaporation using, e.g. foil or O1 PAGEL SURFACE PROTECTION. The supplementary information provided in the Technical Data Sheet O1 PAGEL EVAPORATION PROTECTION must be observed in the event of direct exposure to solar radiation or wind.



TECHNICAL DATA

TYPE		KA 05		KA 20
area of application		putty		mortar
coating thickness		mm	2-5	6-40
grain size		mm	0-0.5	0-2
amount of water		%	14-15	10-11
density of freshly mixed mortar		kg/dm³	2.12	2.24
consumption		kg/dm³	1.90	2.00
processing time		min.	app. 60	app. 60
compressive strength prism 4x4x16 cm	24 h	N/mm²	≥ 10	≥ 10
	7 d	N/mm²	≥ 35	≥ 45
	28 d	N/mm²	≥ 55	≥ 60
bending strength	24 h	N/mm²	≥ 2	≥ 3
	7 d	N/mm²	≥ 6	≥ 7
	28 d	N/mm²	≥ 8	≥ 9
adhesive strength		7d	R3 ≥ 1,5	R4 ≥ 2,0
expansion		24h Vol. %	+ 0.1	+ 0.1

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

storage: store in a dry place and protect from frost, for up to 9 months in sealed bags

packaging: 25-kg bag

Prüfzeugnis: MPA Nr. 21 1433 9 98-03

GISCODE: ZP1

CE		
0921		
PAGEL® SPEZIAL-BETON GmbH & Co. KG, D-45355 Essen		
find the printed batch number		
0921 – BPR – 2034		
EN 1504-3:2005		
KA 20 PAGEL® - CHANNEL MORTAR		
KA 05 PAGEL® - CHANNEL SCREEDING-COMPOUND		
Mortar for statically and not statically relevant repairs (on the basis of hydraulic cement)		
Product name	KA 05	KA 20
class	R3	R4
Compressive strength	≥ 25 MPa	≥ 45 MPa
Chloridion content	≤ 0.05 %	≤ 0.05 %
Adhesion	≥ 1.5 MPa	≥ 2.0 MPa
Prevented shrinkage/swelling	≥ 1.5 MPa	≥ 2.0 MPa
Resistance to carbonation	NPD	NPD
Modulus of elasticity	≥ 15 GPa	≥ 20 GPa
Temperature variation tolerance	NPD	
Grip	NPD	
Thermal expansion coefficient	NPD	
Capillary water absorption	NPD	
Reaction to fire	Class E	
Hazardous Substance	In accordance with EN 1504-3:2005, 5.4	
NPD „No Performance Determined“		



Exposition category according to:

DIN 1045-2 / EN 206-1

PAGEL - CHANNEL MORTAR

	XO	XC	XD	XS	XF	XA	XM
	0	1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3	1 2 3
KA 05	•	• • • •	• • •	• • •	• • • •	• •	• •
KA 20	•	• • • •	• • •	• • •	• • • •	• • •	• •



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SPEZIAL-BETON GMBH & CO. KG

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The data presented was derived from tests under normal climate conditions according to DIN 50014 and mean average values and analysis.

Deviations are possible when delivery takes place.

Given that recommendations may differ from those shown in this leaflet written confirmation should be sought. It is the responsibility of the purchaser to ensure they have the latest leaflet issue and that its contents are current.

Our customer service staff will be glad to provide assistance at any time.

We appreciate the interest you have shown in our products.

This technical data sheet supercedes previously issued information.

Please find the latest leaflet issues at www.pagel.com.

Technisches Merkblatt 0801

QS-Formblatt 01.11 Rev. 13