

PAGEL®-CHANNEL-MORTAR

PROPERTIES

- **PCC-Concrete Replacement System** cement based, for the **maintenance** of concrete and mortar surfaces which are subjected to special chemical loading
- suitable for hand processing on **vertical and overhead surfaces** and on a **horizontal** substrate
- can be sprayed, problem-free processing and high stability and adhesion on vertical and overhead surfaces
- **high resistance**, to some extent also against very substantial chemical attack
- **resistant** to sulphate attack (industry) or ammonium loading (agriculture)
- plastic-armoured and ready for use – the preparation liquid consists only of water, the polymer component is already contained in the mortar as powder
- **company is certified according DIN EN ISO 9001:2008**
- KA 20 is supplemented by the following products:

MSO2 PAGEL-CORROSION-PROTECTION AND ADHESION-LAYER

CE	
0921	
PAGEL SPEZIAL-BETON GMBH & CO.KG Wolfsbankring 9 45355 Essen, Germany 09 250002 EN 1504-3:2005 Product for structural and non structural repair for concrete EN 1504-3: ZA.1a	
Compressive strength	class R4
Chloride ion content	≤ 0,05 %
Adhesive bond	≥ 2,0 MPa
Restrained shrinkage/expansion	≥ 2,0 MPa
Carbonation resistance	passed
Elastic modulus	≥ 20 GPa
Reaction to fire	A1

FIELDS OF APPLICATION

Coating and maintenance of:

- de-salination plant
- wastewater storage units
- wastewater piping systems
- chemically stressed areas
- sulphate-laden groundwater areas
- rain overflow tanks
- collecting tanks

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 20	•	• • • •	• • • •	• • • •	• • • •	• • • •	•

KA 20_S



TECHNICAL DATA			
TYPE	KA 20		
fields of application	mortar		
coating thickness	inch	0.24–1.57	
granulation	inch	0–0.08	
quantity of water	%	11–13	
density of freshly mixed mortar	lbs/ft ³	132.35	
yield	lbs/ft ³	118.62	
compressive strength	24 h	PSI	≥ 2,900
	7 d	PSI	≥ 5,800
	28 d	PSI	≥ 7,975
bending strength	24 h	PSI	≥ 580
	7 d	PSI	≥ 1,015
	28 d	PSI	≥ 1,305
adhesion strength	7d	PSI	R4 ≥ 290
expansion	24h	Vol.%	+ 0,1
<small>All test data are guide values only.</small>			

supplied in: 25-kg bag, euro-pallet 1,000 kg
storage: Cool, dry, free from frost.
shelf-life: 12 months. Unopened in its original packaging.
hazard class: No dangerous substance, follow safety data sheet.

PROCESSING

SUBSTRATE: Clean thoroughly. Remove loose and adhesion-restricting parts and cement slurries by high-pressure water jets or other equipment down to the load-bearing grain structure. Depth of roughness approx. 0.6 inch. There must be sufficient abrasion resistance (mean > 217.5 psi). Pre-wet to saturation. Remove rust from exposed concrete steel and coat without gaps with MSO2 PAGEL-CORROSION-PROTECTION.

MIXING: Apart from a residual quantity pour water (max. 13 % corresponding to 2.75 l per bag) into the forced-circulation mixer, add dry mortar and mix for approx. 3 minutes. Add the rest of the water and mix for a further 2 minutes.

ADHESION LAYER: Stir KA 20 or MSO2 CORROSION-PROTECTION AND ADHESION-LAYER as adhesion layer in small quantities with max. 16 % water as slurries and brush into the substrate to pore depth. No adhesion layer is necessary for the spray process.

PROCESSING: Introduce KA 20 in a plastic consistency into the not yet set adhesion layer, distribute and smooth it. For spray application, ask for special technical advice if required.

AFTER-TREATMENT: Protect the surface against wind, draughts and premature water evaporation with for example film or O1 PAGEL-SURFACE-PROTECTION.

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