



# PAGEL-CONSTRUCTION MORTAR

## ACCORDING TO RILI-SIB

### PROPERTIES

- PCC Repairing System to preserve the stability of concrete components according to RiLi-SIB, part 2, for application within the fields of stress and strain classification M2 and M3
- corresponds to the building material classification B2 according to DIN 4102-2
- · optimal creep behaviour when loaded
- excellent suitability for applying on vertical surfaces and overhead
- allows vapour diffusion and is resistant to frost and dew-salt
- plastic-modified and ready-for-use, needs only be mixed with water
- highly resistant to carbonating, is impervious to water, to the greatest possible extent dense to oil, slows down corrosion, resistant to saponification
- is monitored in accordance with the standards and guidelines in force and production is certified in accordance with ISO 9001
- is being delivered as a system and consists of the following products:

### MSO2 PAGEL-CORROSION-PROTECTION AND ADHESION-LAYER

M3° PAGEL-CONSTRUCTION-MORTAR (0-2,0 mm)

#### FIELDS OF APPLICATION

- coating and repairing of bridges, tunnels and concrete buildings
- filling of defects in the concrete base according to the examples of use tab. 4.1 of the RiLi-SIB, part 2, version 10/01
- repairing of used areas underneath layers of bridges and in multi-storey car parks
- repairing of bridge underside views, retaining walls, abutments, façades and balconies
- in case of repairing plates in building constructions these can be used immediately

Exposition category according to: DIN 1045-2 / EN 206-1 PAGEL – CONSTRUCTION-MORTAR

			XF 1 2 3 4	
N/2		 		





SPEC

SEWER REHABILITATION

PAIRING

OR-USE CHANNE MORTAL

OTECTION

PRODUCTS

RESINS

## M3®

### M<sub>3</sub><sup>®</sup>

#### TECHNICAL DATA

TYPE			M3°		
Grain size		mm	0–2		
Coating thickness		mm	5–40		
Layer thickness in outbrea	mm	6–100			
Amount of water		%	12		
Consumption		kg/dm³	2.00		
Workability		min.	арр. 60		
Slump (with 16 stroke impa	cm	16			
Compressive strength*	24 h	N/mm <sup>2</sup>	≥20		
(DIN 1164)	7 d	N/mm <sup>2</sup>	≥45		
	28 d	N/mm <sup>2</sup>	≥55		
Bending strength	24 h	N/mm <sup>2</sup>	$\geq 4$		
	7 d	N/mm <sup>2</sup>	≥6		
	28 d	N/mm <sup>2</sup>	≥8		
Fresh mortar cross densit	у	kg/dm³	2.200		
Dry mortar cross density		kg/dm³	2.019		
E-module (static)	28 d	N/mm <sup>2</sup>	26,000		
Bond performance					
Bond stress	th	kp/cm <sup>2</sup>	1.195		
Reference bond stress	t	kp/cm <sup>2</sup>	0.669		
Reference bond stress	80 %t	kp/cm <sup>2</sup>	0.535		
Creep behavior					
Final creep measure	€∞		0.00619		
Final creep number	φ∞		1.465		
Final creep load	Eel		0.00496		
All test data are guide values, proofed in our German manufacturing					

plants, - values from other manufacturing plants may vary.

DIN EN 196-1-compliant compressive strength testing

Supplied in: Storage: Hazard class:

25 kg bags 9 months, dry, closed bags no dangerous goods, please examine the material safety data sheet 7P1

	(6						
0921							
PAGEL® SPEZIAL-BETON GmbH & Co. KG, D-45355 Essen							
find the printed batch number							
0921 - BPR - 2034 EN 1504-3:2005							
M3* PAGEL* - CONSTRUCTION-MORTAR Mortar for statically and not statically relevant repairs (on the basis of hydraulic cement)							
Compressive strength		Class R4					
Chloridion content		$\leq 0.05$ %					
Adhesion		$\geq$ 2.0 MPa					
Prevented shrinkage/swelling		$\geq$ 2.0 MPa					
Resistance to carbonation		NPD					
Modulus of elasticity		≥ 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

#### PROCESSING

SUBSTRATE: Clean thoroughly, free of loose and unsound material, remove any cement slurry by means of hydraulic water-blasting or similar till carrying capacity of grain structure is reached. Sufficient adhesion must be granted. (i.m. > 1,5 N/mm<sup>2</sup>). Prior to grouting the surface must be soaked for at least 6 hours till saturation. Remove rust from exposed concrete steel (degree of purity Sa 2 to Sa 2 1/2 and coat twice without gaps with MSO2 PAGEL-CORROSION PROTECTION.

MIXING: The mortar is ready-for-use and only has to be mixed with water. Pour water (max. 3,0 I per 25 kg = 12 % each bag) into the compulsory type mixer except for a residual quantity, add dry mortar and mix for approx.

3 minutes; add the rest of the water and mix for a further 2 minutes till a lump-free consistency is reached.

ADHESION-LAYER: Mix MSO2 PAGEL-

ADHESION-LAYER in small quantities with the maximum specified quantity of water as slurry and brush into the substrate pore-deep (according to technical leaflet).

PROCESSING: Apply M3 PAGEL-CON-STRUCTION-MORTAR into the not yet set solid compacting adhesion-layer, distribute and smooth.

CURING: Protect the surface against premature evaporation as soon as possible, latest after starting of setting process, by keeping the same damp, for example by using a water-fognozzle, plastic sheet or hessian. Time of curing: 3 days minimum.

Temperature: Can be applied at temperatures of between +5°C and +35 °C, low temperatures and cold mixing water will delay strength development and reduce flowability, while high temperatures accelerate these processes.

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