

PAGEL-REPAIR MORTAR

PROPERTIES

- · concrete-Replacement-System in accordance with TL/TP-BE PCC of ZTV-ING98 on cement basis for the maintenance and coating of concrete and mortar areas
- excellently suitable for processing on vertical and over-the-head-surfaces and on horizontal substrates
- · sprayable, particularly easy processing and very high stability and adhesion to vertical and over-the-head-areas
- plastic-strengthened and ready-for-use. The preparation liquid consists only of water, the polymer component is already contained in the mortar as powder
- · water-vapour-diffusion and resistant to frost and dew-salt
- reduces the penetration of CO₂ and moisture (carbonisation), largely impervious to oil and water, at the same time corrosion-checking and to a high degree resistant to saponification
- has already had great succes in practice, even in bridge constructions in difficult climatic conditions
- · monitored in accordance with the valid standards and guidelines production is certified in accordance to ISO 9001
- is supplied as a system and consists of the following products:

MS02 PAGEL-CORROSION-PROTECTION AND **ADHESION BRIDGE**

MS05 PAGEL-STOPPER (0.1-0.5 mm)

MS20 PAGEL-REPAIR MORTAR (0.1-2.0 mm)

MS40 PAGEL-REPAIR MORTAR (0.1-4.0 mm)

FIFLDS OF APPLICATION

- coating and maintenance of bridges, tunnels and concrete structures
- wall and ceiling areas and over-the-head work
- · laying of construction materials (bricks, plates and tiles etc.)
- · binding of pre-fabricated concrete parts and old and new concrete
- repair of holes, edges and cracks
- · jointing of masonry, floor and expansion joints

Exposition category according to: DIN 1045-2 / EN 206-1 / ZTV-W LB219 MS20 PAGEL - REPAIR MORTAR

XC XD XS XF XA 1234 123 1234 123 MS 20







MS20®

MS 20[®]

TECHNICAL DATA				
TYPE			MS 20 [®]	
Grain size		mm	0.1-2.0	
Coating thickness		mm	6-40	
Amount of water		%	11–12	
Consumption		kg/dm³	2.00	
Density of freshly mixed mortar		kg/dm³	2.16	
Processing time		min.	ca. 60	
Compressive strength*	24 h	N/mm ²	≥20	
	7 d	N/mm ²	≥45	
	28 d	N/mm ²	≥55	
Bending strength	24 h	N/mm ²	≥4	
	7 d	N/mm ²	≥6	
	28 d	N/mm ²	≥8	
Class R4	after 7 d	N/mm ²	≥ 2.0	
E-Module (static)	28 d	N/mm ²	app. 34500	
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: 25-kg-bag

dry and in closed containers storage: shelf-life:

9 months

hazard class: Not a dangerous substance

Follow safety data sheet

types of cement: Other types of cement can also be

supplied although the technical properties are changed as a result. If you have any queries, please get in touch with our Customer Services.



0921

PAGEL® Spezial-Beton GmbH & Co. KG D-45355 Essen

find the printed batch number

0921-BPR-2023

EN 1504-3:2005

MS20° PAGEL®-REPAIR MORTAR

Mortar for statically and not statically relevant repairs (on the basis of hydraulic cement)

Compressive strength	Class R4
Chloridion content	≤ 0,05 %
Adhesion	≥ 2,0 MPa
Prevented shrinkage/swelling	≥ 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"

Having concrete repairs in accordance with EN 1504-3, an aditional carbonation-protection-system in accordance with EN 1504-2 needs to be applied.

PROCESSING

SUBSTRATE: Carefully clean, remove loose and adhesion-reducing parts as well as cement slurry by high-pressure-water blasting or such like down to the load-bearing grain structure; sufficient abrasion resistance must be guaranteed (mean ≥1,5 N/mm²). Pre-wet to saturation. Remove rust from exposed concrete steel (degree of purity Sa 2 to Sa 2½) and coat without gaps with MSO2 PAGEL-COR-ROSION PROTECTION.

MIXING: Apart from a residual quantity, pour the water (max. 13%, corresponding to 3,25 l per sack) 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 BRIDGE: Mix MSO2 PAGEL-ADHESION-BRIDGE in small quantities with the maximum specified quantity of water as slurry and brush into the substrate pore-deep. When using the spray process, no adhesion bridge is required.

PROCESSING: Introduce MS PAGEL-REPAIR-MORTAR in plastic consistency into the not yet set adhesion bridge, distribute and smooth. If using the spray process, seek special technical advice if required.

AFTER-TREATMENT: The mortar surfaces must be protected against premature water evaporation by keeping them moist e. g. with water mist jet and an airtight-closing film of wet strips of jute (ZTV-ING, Section 6.65, 5 days). O2C PAGEL-CONCRETE PROTECTION PAINT is suitable as aftertreatment agent for subsequent OS coating.

www.superbeton.su (495) 648-52-04

MS-CONCRETE MAINTENANCE SYSTEM

1.MS02 PAGEL-CORROSION PROTECTION

AND ADHESION BRIDGE

2. MS20° PAGEL-REPAIR MORTAR

granulation 0-2 mm

3.MSO5 PAGEL-PCC STOPPER

granulation 0-0,5 mm

PAGEL-HYDROPHOBATION 4. **O2A**

PAGEL-CONCRETE PROTECTION

5. **02C** PAINT AND CURING (ZTV-ING Class OS-C)

O2DE PAGEL-CONCRETE PROTECTION

(ZTV-ING Class OS-DII)

PAGELASTIC 6. **D1** (ZTV-ING Class OS-DI)

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ce 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







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