

MS 20® PAGEL® REPAIR MORTAR



PROPERTIES

- **concrete-Replacement-System** in accordance with TL/TP-BE PCC of ZTV-SIB 98 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:
 - MS 02 PAGEL-CORROSION-PROTECTION AND ADHESION BRIDGE
 - MS 05 PAGEL-STOPPER (0.1-0.5 mm)
 - MS 20 PAGEL-REPAIR MORTAR (0.1-2.0 mm)
 - MS 40 PAGEL-REPAIR MORTAR (0.1-4.0 mm)

FIELDS 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



MS 20® PAGEL®-REPAIR MORTAR

TECHNICAL DATA

TYPE		MS 20	MS 40	
grain size	mm	0.1-2.0	0.1-4.0	
coating thickness	mm	6-40	30-70	
quantity of water	%	11-12	11-12	
consumption	kg/dm ³	2	2	
fresh mortar gross density	kg/dm ³	2.16	2.23	
processing time	min.	60	60	
compressive strength	after 24 h	N/mm ²	24	19
	3 d	N/mm ²	27	37
	7 d	N/mm ²	52	42
	28 d	N/mm ²	60	50
bending strength	after 24 h	N/mm ²	5	4
	2 d	N/mm ²	6	6
	7 d	N/mm ²	8	7
	28 d	N/mm ²	10	9
adhesive strength	7 d	N/mm ²	1.8	1.7
	28 d	N/mm ²	>2.0	>2.0
modulus of elasticity (static)	28 d	N/mm ²	~34500	~34900

All test data are values derived under normal climate conditions. 23/50-2

supplied in:	25-kg-bag
storage:	dry and in closed containers
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.

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 $\geq 1,5$ 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-CORROSION 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-SIB, Section 6.65, 5 days). O2C PAGEL-CONCRETE PROTECTION PAINT is suitable as after-treatment agent for subsequent OS coating.

MS CONCRETE MAINTENANCE SYSTEM

1. MSO2 PAGEL-CORROSION PROTECTION AND ADHESION BRIDGE
2. MS 20 PAGEL-REPAIR MORTAR granulation 0.1 - 2.0 mm
3. MS 40 PAGEL-REPAIR MORTAR granulation 0.1 - 4.0 mm
4. MSO5 PAGEL-PCC-STOPPER granulation 0.1 - 0.5 mm
5. O2A PAGEL-HYDROPHOBATION
6. O2C PAGEL-CONCRETE PROTECTION PAINT (ZTV-SIB Class OS-C)
or
O2DE PAGEL-CONCRETE PROTECTION PAINT (ZTV-SIB Class OS-DII)
7. D1 PAGELASTIC (ZTV-SIB Class OS-DI)

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