

## MH20/MH80 PAGEL®-PCC-I-MORTAR



### PROPERTIES

- **PCC-Concrete Replacement System** in accordance with **ZTV-SIB/TP-BE PCC (98)** for PCC-I-range of applications
- excellently suitable for use on **horizontal** substrates
- **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 CO<sub>2</sub>** and moisture (carbonatisation), largely resistant to oil and water, at the same time checks corrosion and has high resistance to saponification
- fulfils the technical testing and supply conditions in accordance with **with ZTV-SIB 90, TL/TP PCC and OS with ISO 9001**
- **monitored** in accordance with the valid standards and guidelines and production is certified in accordance with **ISO 9001**
- **is supplied as a system** and consists of the following products:
  - MH02 PAGEL-CORROSION PROTECTION AND ADHESION LAYER
  - MH20 PAGEL-PCC-I-MORTAR (0-2.0 mm)
  - MH80 PAGEL-PCC-I-MORTAR (0-8.0 mm)

### FIELDS OF APPLICATION

- **maintenance** of bridge and tunnel construction work with PCC-I-surfaces (horizontal)
- **coating** of floor and bridge surfaces
- **repair** of deeper cavities in concrete floors
- **substrate floor** prior to coatings and coverings



# MH20/MH80 PAGEL®-PPC-I-MORTAR

## TECHNICAL DATA

| TYPE                              |                        | MH20   | MH80   |
|-----------------------------------|------------------------|--------|--------|
| <b>Granulation</b>                | mm                     | 0-2    | 0-8    |
| <b>Coating thickness</b>          | mm                     | 6-40   | > 30   |
| <b>Quantity of Water</b>          | %                      | 11     | 10     |
| <b>Consumption</b>                | kg/dm <sup>3</sup>     | 2,0    | 2,0    |
| <b>Fresh Mortar Gross Density</b> | kg/dm <sup>3</sup>     | 2.213  | 2.283  |
| <b>Processing Time</b>            | 20 °C Min.             | 60     | 60     |
| <b>Compressive Strength</b>       | 24 h N/mm <sup>2</sup> | 21     | 31     |
|                                   | 3 d N/mm <sup>2</sup>  | 38     | 45     |
|                                   | 7 d N/mm <sup>2</sup>  | 48     | 59     |
|                                   | 28 d N/mm <sup>2</sup> | 56     | 68     |
|                                   | 90 d N/mm <sup>2</sup> | 78     | 74     |
| <b>Bending Strength</b>           | 24 h N/mm <sup>2</sup> | 4      | 4      |
|                                   | 3 d N/mm <sup>2</sup>  | 6      | 8      |
|                                   | 7 d N/mm <sup>2</sup>  | 9      | 8      |
|                                   | 28 d N/mm <sup>2</sup> | 9      | 8      |
|                                   | 90 d N/mm <sup>2</sup> | 11     | 11     |
| <b>Adhesion Tensile Strength</b>  | 7 d N/mm <sup>2</sup>  | 2.6    | 3.1    |
|                                   | 28 d N/mm <sup>2</sup> | 2.9    | 3.0    |
| <b>Modulus of Elasticity</b>      | N/mm <sup>2</sup>      | 29.500 | 31.200 |

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

|                      |   |
|----------------------|---|
| <b>Colour:</b>       | middle to dark grey                                 |
| <b>Supplied in:</b>  | 25-kg-bags  |
| <b>Storage:</b>      | dry   |
| <b>Shelf-life:</b>   | 9 months in sealed bags                             |
| <b>Hazard Class:</b> | no dangerous substances<br>follow safety data sheet |

## PROCESSING

**INSTALLATION INSTRUCTIONS:** Please observe!

**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/mm<sup>2</sup>). Pre-wet to saturation. Remove rust from exposed concrete steel (degree of purity Sa 2/3) and coat without any gaps with MSO2 PAGEL-CORROSION-PROTECTION.

**ADHESION LAYER:** Brush into the prepared concrete substrate MSO2 PAGEL-CORROSION-PROTECTION AND ADHESION LAYER without any gaps and to the depth of the pores. The following coating must be fresh-on-fresh.

In the event of an interruption and/or hardening, the adhesion layer must set completely. Repeat the process after a corresponding waiting period.

**MIXING:** Apart from a residual quantity, pour the water (max. 11 %), corresponding to 2.5 – 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.

**PROCESSING:** Introduce MH20/MH80 at plastic consistency into the not yet set adhesion layer, distribute it and smooth it.

**AFTER-TREATMENT:** Protect surface from wind, draughts and premature water evaporation, e.g. with film or strips of jute. If no subsequent coating is to follow, the surface can be after-treated with O1 PAGEL-EVAPORATION-PROTECTION outside ZTV-SIB building sites.

The information provided in this leaflet, is supplied by our consulting service and is the end result of exhaustive research work and extensive experience. They are, however, without liability on our part, in particular with regard to third parties proprietary rights, and do not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. 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](http://www.pagel.com).



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MH20

MH80