

PCC-I MORTAR

MH80 PCC-I MORTAR (0-8 mm)

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › PCC-I Concrete replacement system acc. to Rili-SIB
- › PCC-I Mortar for the statically relevant repair acc. to DIN EN 1504-3
- › Product acc. to DIN EN 13813 "Cement-based screeds for wearing layers"
- › Verifications of applicability: general building inspection test certificate (abP)
- › High resistance to frost-deicing salt resistance acc. to TP-BE-PCC
- › Confirmation of the voluntary external monitoring by the QDB
- › Factory production control acc. to DIN EN 1504-3
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › Extremely suitable for the processing on horizontal substrates
- › Ready to use, only requires mixing with water
- › Open to water vapour diffusion
- › Reduces the ingressing of CO₂ and moisture (carbonation), largely impermeable to oil and water, at the same time corrosion-inhibiting and highly resistant to saponification

AREAS OF APPLICATION

- › Repair of bridge and tunnel structures with PCC-I surfaces (horizontal)
- › Coating of floor and bridge levelling surfaces
- › Repair of chippings in concrete floors
- › Subfloor for the following coatings and coverings

MOISTURE CLASSES BASED ON CONCRETE CORROSION FROM ALKALI-SILICIC ACID REACTIONS

Moisture class	WO	WF	WA	WS
MH80	•	•	•	•

The aggregates in PAGEL[®]'s products comply with the requirements of alkali sensitivity class E1 from non-hazardous sources specified under DIN EN 12620.

EXPOSURE CLASS ALLOCATION ACC. TO: DIN EN 206-1 / DIN EN 1992-1-1

	XO	XC	XD	XS	XF	XA	XM
	1 2 3 4	1 2 3	1 2 3	1 2 3 4	1 2 3 4	1 2 3*	1 2 3
MH80	•	•••••	•••••	•••••	•••••	••	•

* Having sulfate attack up to 600 mg/l
With protective measures according to DIN 1045-2

TECHNICAL DATA

TYPE		MH80	
Grain size	mm	0-8	
Layer thickness	mm	> 30	
Amount of water	max. %	9	
Consumption approx.	kg/(m ² · mm)	2.0	
Fresh mortar raw density	approx kg/m ³	2,200	
Processing time	20 °C min	60	
Compressive strength*	7 d	N/mm ²	≥ 35
	28 d	N/mm ²	≥ 55
Bending tensile strength*	7 d	N/mm ²	≥ 6
	28 d	N/mm ²	≥ 8
Adhesive pull	7 d	N/mm ²	≥ 2.0

* Testing of bending tensile and compressive strength in accordance with DIN EN 196-1
DIN EN 12390-3-compliant concrete compressive strength testing

Note: All fresh and solid mortars are tested at 20 °C ± 2 °C. Higher or lower temperatures result in deviating properties of fresh respectively solid mortars and test results. Depending on the temperature, the consistency can be adapted with a slight reduction of the mixing water.

Colour: medium to dark grey
Storage: 12 months. Cool, dry, free from frost. Unopened in its original container.
Delivery form: 25-kg bag, Euro palette 1,000 kg
Hazard class: Non-hazardous material, observe information on packaging.
GISCODE: ZP1

PAGEL PRODUCT COMPOSITION:

Cement: acc. to DIN EN 197-1
 Aggregate: acc. to DIN EN 12620
 Additions: acc. to DIN EN 450, general building inspection approval (abZ), DIN EN 13263 (fly ash, microsilica, etc.)

APPLICATION

SUBSTRATE PREPARATION:

Remove loose and unsound material such as cement slurry and dirt etc. using suitable methods, e.g. shot-blasting or similar until the underlying solid grain structure has been exposed. A sufficient average tear strength ($\geq 1.5 \text{ N/mm}^2$, KEW $\geq 1.0 \text{ N/mm}^2$) must be ensured.

Prewetting:

Prewet the concrete substrate to capillary saturation for approx. 6-24 hours.

Reinforcing steel:

Blast all rust off exposed reinforcement bars until the underlying metal has been exposed acc. to purity grade SA 2 ½ in accordance with DIN EN ISO 12944-4.

CORROSION PROTECTION:

Apply two complete coats of **MH02 CORROSION PROTECTION AND BONDING AGENT** using a brush.

MIXING:

The dry mortar is supplied ready to use and only needs to be mixed with water. Fill the specified amount of water apart from a residual amount into a clean and suitable mixing device (e.g. compulsory mixer). Add the dry mortar and mix for at least 3 minutes. Add the remaining water and mix for at least another 2 minutes until it forms a homogeneous mass.

BONDING LAYER:

Use a brush or broom and brush **MH02 CORROSION PROTECTION AND BONDING AGENT** onto the prewetted, slightly moist concrete substrate until it has penetrated right down into the pores and without leaving any gaps. The subsequent mortar coating must be applied wet-on-wet. The technical data sheet **MH02 CORROSION PROTECTION AND BONDING AGENT** must be observed.

APPLICATION:

PCC-I MORTAR in plastic consistency should be installed in one step into the as yet unsolidified bonding layer; it should be smoothed after an appropriate waiting time. Always keep the tools moist.

Temperature range: + 5 °C to + 35 °C

Mixing water: Drinking water quality

FOLLOW-UP TREATMENT:

Exposed grout areas must be protected from premature water evaporation (from wind, draughts, direct exposure to sun; etc.) immediately on completion of the work for a period of 3-5 days.

Suitable curing methods:

Water spray, foil covers with jute sheets, thermofoils or moisture-retaining covering sheets, **01 EVAPORATION PROTECTION**.

The information provided in this leaflet, application instructions and other recommendations are based on extensive research and experience. They are, however, not binding, in particular with regard to third party proprietary rights, and do not relieve the customer of his responsibility to verify that the products and processes are suitable for the intended application. The indicated test data are mean values and average analyses. Deviations are possible when delivery takes place. Recommendations that differ from those provided in this leaflet require written confirmation. Planners and operators are responsible for ensuring that this leaflet is the latest edition and for obtaining information on the latest technological developments. Our customer service staff will be happy to answer your questions at any time. Many thanks for your interest in our products. This technical data sheet supersedes all previously issued product information. Please visit our website for the latest valid version of this brochure at www.pagel.com.

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