PAGEL®

PAGEL®-PCC-I-MORTAR

MH20 US

MH80 US

PROPERTIES

- **PCC-Concrete Replacement System** in accordance with **ZTV-ING/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 an dew-salt
- **reduces the penetration of CO_2** 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-ING 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 (0–0.08 inch)
MH80 PAGEL-PCC-I-MORTAR (0-0.31 inch)

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

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TECHNICAL DATA

TYPE			MH20	MH80
Granulation		inch	0–0.08	0–0.31
Coating thickness		inch	0.24–1.57	> 1.18
Quantity of Water		%	12	9
Consumption		lbs/ft³	124.86	124.86
Fresh Mortar Gross Density		lbs/ft³	137.35	143.59
Processing Time	20°C	Min.	60	60
Compressive Strength	24 h	PSI	2,610	4,495
	3 d	PSI	3,625	6,525
	7 d	PSI	5,075	8,555
	28 d	PSI	8,120	9,425
	90 d	PSI	11,310	10,730
Bending Strength	24 h	PSI	580	580
	3 d	PSI	870	1,160
	7 d	PSI	1,305	1,160
	28 d	PSI	1,305	1,160
	90 d	PSI	1,595	1,595
Adhesion Tensile Strength	7d	PSI	≥ 217.5	≥ 217.5
	28 d	PSI	≥ 217.5	≥ 217.5
Modulus of Elasticity		PSI	4,277,500	4,524,000

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

Colour: middle to dark grey
Supplied in: 25-kg-bags
Storage: dry
Shelf-life: 9 months in sealed bags
Hazard Class: no dangerous substances
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 > 217.5 PSI). Pre-wet to saturation. Remove rust from exposed concrete steel (degree of purity Sa $^{2}/_{1}$) and coat without any gaps with MS02 PAGEL-CORROSION-PROTECTION.

ADHESION LAYER: Brush into the prepared concrete substrate MS02 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. 12 %), 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 01 PAGEL-EVAPORATION-PROTECTION outside ZTV-ING building sites.

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Technical Ref. Sheet **0603 US**
QS-Formblatt 01/08 Rev. 05