

# PAGEL®-PCC-I-MORTAR

## 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 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-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 (0-2.0 mm)

MH80 PAGEL-PCC-I-MORTAR (0-8.0 mm)

## FIELDS OF APPLICATION

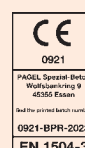
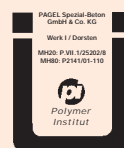
- **maintenance** of bridge and tunnel construction work with PCC-I-surfaces (horizontal)
- **coating** of floor and bridge surfaces
- **repair** of deeper cavities in concrete floors
- **substrate floor** prior to coatings and coverings

MH20

MH80

Assigning to expositioncategory according to:  
DIN 1045-2 / EN 206-1  
PAGEL – PCC-I-Mortar

	XO 0	XC 1 2 3 4	XD 1 2 3	XS 1 2 3	XF 1 2 3 4	XA 1 2 3	XM 1 2 3
MH20	*	• • • •	• • •	• • •	• • • •	• •	•
MH80	*	• • • •	• • •	• • •	• • • •	• •	•



MH20

MH80

TECHNICAL DATA				
TYPE		MH20	MH80	
Granulation	mm	0-2	0-8	
Coating thickness	mm	6-40	> 30	
Quantity of Water	%	12	9	
Consumption	kg/dm <sup>3</sup>	2,0	2,0	
Fresh Mortar Gross Density	kg/dm <sup>3</sup>	2,2	2,2	
Processing Time	20°C	Min. app. 60	app. 60	
Compressive Strength*	24 h	N/mm <sup>2</sup>	-	-
	7 d	N/mm <sup>2</sup>	≥ 35	≥ 35
	28 d	N/mm <sup>2</sup>	≥ 55	≥ 55
Bending Strength	24 h	N/mm <sup>2</sup>	-	-
	7 d	N/mm <sup>2</sup>	≥ 6	≥ 6
	28 d	N/mm <sup>2</sup>	≥ 8	≥ 8
Adhesion Tensile	7d	N/mm <sup>2</sup>	≥ 2,0	≥ 2,0
Class R4	after 7 d	N/mm <sup>2</sup>	≥ 2,0	≥ 2,0
Modulus of Elasticity	N/mm <sup>2</sup>	29.500	31.200	

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  
DIN EN 12390-3-compliant compressive strength testing

**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

<b>CE</b>	
<b>0921</b>	
<b>PAGEL® Spezial-Beton GmbH &amp; Co. KG</b> <b>D-45355 Essen</b>	
<b>find the printed batch number</b>	
<b>0921-BPR-2023</b>	
<b>EN 1504-3:2005</b>	
<b>MH20 u. MH80 PAGEL®-PCC-I-MÖRTEL</b> 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	NPD
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“

## 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 2/1) 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. 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 O1 PAGEL-EVAPORATION-PROTECTION outside ZTV-ING building sites.

[www.superbeton.su](http://www.superbeton.su)  
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