

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 CO₂** 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

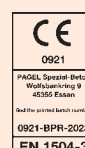
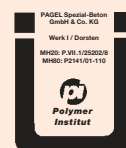
- **maintenance** of bridge and tunnel construction work with PCC-I-surfaces (horizontal)
- **coating** of floor and bridge surfaces
- **repair** of deeper cavities in concrete floors
- **substrate floor** prior to coatings and coverings

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 ³	2,0	2,0
Fresh Mortar Gross Density	kg/dm ³	2,2	2,2
Processing Time	20°C Min. app.	60	app. 60
Compressive Strength*	24 h	N/mm ²	-
	7 d	N/mm ²	≥ 35
	28 d	N/mm ²	≥ 55
Bending Strength	24 h	N/mm ²	-
	7 d	N/mm ²	≥ 6
	28 d	N/mm ²	≥ 8
Adhesion Tensile	7d	N/mm ²	≥ 2,0
Class R4	after 7 d	N/mm ²	≥ 2,0
Modulus of Elasticity	N/mm ²	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

	
0921	
PAGEL® Spezial-Beton GmbH & Co. KG D-45355 Essen	
find the printed batch number	
0921-BPR-2023	
EN 1504-3:2005	
MH20 u. MH80 PAGEL®-PCC-I-MÖRTEL 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/mm²). 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.

All of the information, technical advice and recommendations provided in this brochure are based on comprehensive research and practical experience. However, they are – including with regard to third-party property rights – for information only and do not release customers from their responsibility to check whether the above products and procedures are suitable for their intended use. The above test data has been derived under standard climatic conditions and in accordance with DIN 50014. These values are average values and analyses, and product values may slightly differ upon delivery. Any recommendations contrary to those stated in this brochure require our written consent. The planner and processing company must always obtain information on the latest state of the art and relevant valid edition of this brochure. Please do not hesitate to contact our customer service department at any time and many thanks for your interest. This brochure makes all previously published product information null and void. Please visit our website for the latest valid version of this brochure at www.pagel.com.



PES [UK] Limited

UNIT 1 WATLING CLOSE SKETCHLEY MEADOWS BUSINESS PARK
HINCKLEY LEICESTERSHIRE · GB-LE10 3EZ
TEL. +44 [0]1455 251251 FAX: +44 [0]1455 251252
WWW.PESUKLTD.COM · E-MAIL: SALES@PESUKLTD.COM

PAGEL SPEZIAL-BETON GMBH & CO KG
WOLFSBANKRING 9 · D-45355 ESSEN
TEL. +49 (0)2 01-6 85 04-0 · FAX +49 (0)2 01-6 85 04-31
WWW.PAGEL.COM · E-MAIL: INFO@PAGEL.COM