

CORROSION PROTECTION AND BONDING AGENT

MH02 CORROSION PROTECTION AND BONDING AGENT

TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Product acc. to DIN EN 1504-7 "Corrosion protection of reinforcement"
- › Factory production control acc. to DIN EN 1504-7
- › Company certification acc. to DIN EN ISO 9001:2015

PROPERTIES

- › Ready-to-use, cementitious bonding bridge and corrosion protection in one product
- › Only needs to be mixed with water
- › Easy to process
- › High resistance to carbonation - and reduces the ingressing of CO₂ and humidity
- › High alkalinity reserve
- › Active corrosion protection of the reinforcement
- › Open to water vapour diffusion
- › Non combustible

SYSTEM COMPONENTS

- MH02** Corrosion protection and bonding bridge
- MH20, MH80** PCC I-Mortar

AREAS OF APPLICATION

- › Mineral corrosion protection for concrete steel and other metallic surfaces
- › Mineral bonding bridge in the PAGEL[®] PCC I concrete repair system

TECHNICAL DATA

TYPE			MH02
Amount of water	Bonding layer	%	18
	Corrosion protection	%	16
Processing time approx.	10 °C	min	60
	20 °C	min	45
	30 °C	min	30
Consumption approx.	Bonding layer	kg/m ²	2-4
	Corrosion protection	kg/m ²	4-6
	(2-fold)		
Fresh mortar raw density approx.		kg/m ³	2,100
Coating	Bonding layer		1-fold
	Corrosion protection	PCC	2-fold
Adhesive pull strength		N/mm ²	≥ 1.5

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.

Storage: 12 months. Cool, dry, free from frost. Unopened in its original container.

Delivery form: 25-kg bag, Euro pallet 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.)

PROCESSING

SUBSTRATE PREPARATION:

Remove loose and unsound material such as cement slurry and dirt etc. using suitable methods, e.g. shotblasting or similar until the underlying solid grain structure has been exposed.

A sufficient average tear strength (1.5 N/mm², KEW 1.0 N/mm²) must be ensured.

Prewetting:

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

Reinforced concrete:

The grade of surface preparation of reinforcement as well as other metallic parts is based on the requirements of the current applicable regulations and must be ensured before the application.

Non-iron metals:

Cement and cement-bound building materials may cause non-iron-metals in the transitional area of the contact surface (e.g. aluminium, copper, zinc) to loosen.

Please contact us for technical advice.

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.

Mixing water:

Drinking water quality

Temperature range:

+5 °C to +35 °C

Low temperatures and cold mixing water reduce strength development, require intensive forced mixing and reduce flowability. Higher temperatures accelerate strength development and can also reduce the flowability.

APPLICATION:

Corrosion protection:

Apply two complete coats to the derusted reinforcing steel using a brush.

Waiting time until the 2. coating: approx. 6 h
Waiting time until the coating with mortar: approx. 6 h

Mineralische Bonding bridge:

Use a brush or broom and brush onto the pre-wetted, slightly damp 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. If the application is stopped, or if the bonding layer starts to harden, it must be left to fully set. After a corresponding waiting time, repeat the process.

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.