

## PAGEL®-CORROSION- PROTECTION AND ADHESION-LAYER

### PROPERTIES

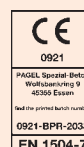
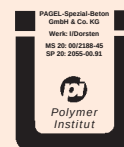
- high-quality corrosion protection and adhesion layer on a mineral basis and constituent of our **PCC/SPCC-Concrete Maintenance System**
- contains a **polymer powder** and is **mixed only with water**
- increases not just the corrosion protection of steel reinforcement but also serves at the same time as **adhesion layer** for subsequent coatings
- can be processed **without problems**, even on surfaces and overhead, is impervious to water and resistant to saponification
- can be applied as corrosion protection also on **matt-moist steel substrate**
- is frost and dew-salt resistant, capable of vapor diffusion and prevents the penetration of CO<sub>2</sub>
- has been **examined** as corrosion protection in accordance with **ZTV-ING 90/TL-TP BE PCC (1998)** – M S 0 2 is used in the PCC area and is **constantly subject to our own and external monitoring**
- as **corrosion protection** it is applied twice
- is subject to our own **constant controlling** in accordance with the recognized standards and guidelines. The production is certified in accordance with **ISO 9001**.
- M S 0 2 is supplied as a system and consists of the following products:

|         |                                           |
|---------|-------------------------------------------|
| M S 0 5 | PAGEL-PCC-SCREEDING-COMPOUND (0.1–0.5 mm) |
| M S 2 0 | PAGEL-PCC-REPAIR-MORTAR (0.1–2.0 mm)      |
| M H 2 0 | PAGEL-PCC-REPAIR-MORTAR (0.1–2.0 mm)      |
| M H 8 0 | PAGEL-PCC-REPAIR-MORTAR (0.1–8.0 mm)      |

### FIELDS OF APPLICATION

- **mineral corrosion protection** for concrete steel and other metallic surfaces
- **adhesion layer** for concrete and mortar substrates
- authorised for M S 2 0, M H 2 0 and M H 8 0
- can be used on damp substrates

M S 0 2



### TECHNICAL DATA

|                                        |                      |                   |           |
|----------------------------------------|----------------------|-------------------|-----------|
| TYPE                                   | M S 0 2              |                   |           |
| <b>basic</b>                           | cement               |                   |           |
| <b>components</b>                      | 1                    |                   |           |
| <b>density of freshly mixed mortar</b> | kg/dm <sup>3</sup>   |                   | 2,1       |
| <b>water amount</b>                    | adhesion layer       | %                 | 18        |
|                                        | corrosion protection | %                 | 16        |
| <b>consumption</b>                     | kg/dm <sup>3</sup>   |                   | 1,6–2,0   |
|                                        | adhesion layer       | kg/m <sup>2</sup> | 2–4       |
|                                        | corrosion protection | kg/m <sup>2</sup> | 4–6       |
| <b>coating</b>                         | 24 h                 |                   | 1-time    |
|                                        | 28 d                 | PCC               | 2-times   |
| <b>abrasion strength</b>               | N/mm <sup>2</sup>    |                   | ≥ 1,5     |
| <b>processing time</b>                 | 10 °C                | min.              | app. 60   |
|                                        | 20 °C                | min.              | app. 45   |
|                                        | 30 °C                | min.              | app. 30   |
| <b>processing temperature</b>          | °C                   |                   | +5 to +40 |
| <b>relative humidity of air</b>        | %                    |                   | < 95      |

All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.

**supplied in:** 15-kg-bucket / 25-kg-bag  
**storage:** dry  
**shelf-life:** 9 months in closed containers  
**test certificate:** BAM Berlin Corrosion protection no. VII.1/25201/1  
 Adhesion bridge no. VII.I/25202/2  
**hazard class:** no dangerous substance follow safety data sheet

|                                                                                                                            |                                        |
|----------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <b>CE</b>                                                                                                                  |                                        |
| <b>0921</b>                                                                                                                |                                        |
| PAGEL® Spezial-Beton GmbH & Co. KG<br>D-45355 Essen                                                                        |                                        |
| find the printed batch number                                                                                              |                                        |
| <b>0921-BPR-2033</b>                                                                                                       |                                        |
| <b>EN 1504-7:2006</b>                                                                                                      |                                        |
| M S 0 2 PAGEL®-KORROSIONSSCHUTZ<br>Product for corrosion protection of reinforcement for repair and protection of concrete |                                        |
| Shearing resistance                                                                                                        | NPD                                    |
| Corrosion-Protection                                                                                                       | passed                                 |
| Hazardous Substance                                                                                                        | In accordance with EN 1504-7:2006, 5.3 |

NPD: „No Performance Determined“

### PROCESSING

**SURFACE: Metallic substrates** must have their rust removed down to bare metal (Sa 2 1/2 in accordance with DIN 55928, Part 4) by blasting.

**Cement-bound substrates** must be solid and load-bearing, have a fine-feel and be free of cement glue, loose and brittle parts as well as substances having a separation effect such as oil, fat, abraded rubber, coating residues or such like. The substrate may be moist.

Substrate pre-treatment is necessary e.g. sand, ball, high-pressure-water blasting, milling or abrading. Following pre-treatment the abrasion resistance of the substrate must be at least ≥ 1,5 N/mm<sup>2</sup> (mean).

**MIXING:** Thoroughly mix M S 0 2 with approx. 18 % (adhesion layer) or 16 % (corrosion protection) with water in a mechanical agitator at a maximum of 300 revs/min. (slow-running boring machine with agitator paddle) or in the forced-circulation mixer until the mixture is homo-geneous and free of lumps (approx. 5 minutes).

Allow the mixture "to ripen" for a short period.

### PROCESSING:

#### CORROSION PROTECTION

Apply M S 0 2 without leaving gaps to the prepared concrete steel with a brush. The second coating follows after approx. 6 hours as soon as the first coating is brush-solid.

#### ADHESION LAYER

Apply M S 0 2 without leaving gaps to the prepared concrete subsoil with a solid brush. The following coating must follow fresh-in-fresh.

In case of interruption and/or setting the adhesion layer must completely set. After a corresponding period of waiting the process is to be repeated.

**CLEANING:** The equipment and tools are to be cleaned carefully with water after every process.

The information provided in this leaflet, is supplied by our consulting service and is the end result of exhaustive research work and extensive experience. They are, however, without liability on our part, in particular with regard to third parties proprietary rights, and do not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The data presented was derived from tests under normal climate conditions according to DIN 50014 and mean average values and analysis. Deviations are possible when delivery takes place. Given that recommendations may differ from those shown in this leaflet written confirmation should be sought. It is the responsibility of the purchaser to ensure they have the latest leaflet issue and that its contents are current. Our customer service staff will be glad to provide assistance at any time. We appreciate the interest you have shown in our products. This technical data sheet supercedes previously issued information. Please find the latest leaflet issues at [www.pagel.com](http://www.pagel.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  
 INTERNET: WWW.PAGEL.COM · E-MAIL: INFO@PAGEL.COM