

# PCC SCREED

## MS05 PCC SCREED (0-0.5 mm)

### TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › PCC screed for structural relevant repairs acc. to DIN EN 1504-3
- › Non-combustible - verification with a test for the classification according to building material class A2 - s1, d0 according to DIN 13501-1
- › Product acc. to TL OS of ZTV-SIB - Verification by test report
- › Product acc. to TL BE-PCC of ZTV-SIB - Verification by test report
- › Verification of the durability in the event of a water change stress acc. to BAW recommendation
- › Confirmation of the voluntary external monitoring by the Kiwa GmbH Polymer Institut
- › Factory production control acc. to DIN EN 1504-3
- › Company certification acc. to DIN EN ISO 9001:2015

### PROPERTIES

- › Levelling and scratch filler with the granularity 0 - 0.5 mm for a layer thickness of 1.5 - 6 mm.
- › Highly suitable for application to both vertical and overhead surfaces
- › Sprayable
- › Particularly easy to process and highly stable and bonding
- › Ready to use, only requires mixing with water
- › Open to water vapour diffusion
- › Can be coated after a few hours (from 10 °C) with **O2C** CONCRETE PROTECTIVE PAINT. A curing is not required in this case

### AREAS OF APPLICATION

- › Repair of pores, holes, cracks and unevenness of floors and walls
- › Substrate for surface protection coatings, e.g. **O2C** and **O2DE**
- › Levelling of concrete repair works
- › Coating of prefabricated parts, masonry and concrete surfaces
- › Filling of conduit slits and tube slits

#### MOISTURE CLASSES BASED ON CONCRETE CORROSION FROM ALKALI-SILICIC ACID REACTIONS

Moisture class	WO	WF	WA	WS
<b>MS05</b>	•	•	•	•

The aggregates in PAGEL<sup>®</sup>'s products comply with the requirements of alkali sensitivity class E1 from non-hazardous sources specified under DIN EN 12620.

## TECHNICAL DATA

TYPE		MS05	
Grain size	mm	0-0.5	
Layer thickness	mm	1.5-6	
Amount of water	max. %	15	
Consumption approx.	kg/(m <sup>2</sup> · mm)	1.8	
Fresh mortar raw density approx.	kg/m <sup>3</sup>	2,050	
Processing time approx.	20 °C min	30	
Compressive strength*	7 d	N/mm <sup>2</sup>	≥ 35
	28 d	N/mm <sup>2</sup>	≥ 45
Bending tensile strength*	7 d	N/mm <sup>2</sup>	≥ 6
	28 d	N/mm <sup>2</sup>	≥ 8
Adhesive pull strength	7d	N/mm <sup>2</sup>	≥ 1.5

\* Testing of bending tensile and compressive strength in accordance with DIN EN 196-1

**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 palette 1,000 kg

**GISCODE:** ZP1

**Types of cement:** Can also be supplied with other types of cement, however, this will change the technical properties. Should you have any questions, please contact our customer service.

### 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. shot-blasting or similar until the underlying solid grain structure has been exposed. A sufficient average tear strength ( $\geq 1.3 \text{ N/mm}^2$ , KEW  $\geq 0.8 \text{ N/mm}^2$ ) must be ensured.

### Prewetting:

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

### 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.

### APPLICATION:

Fill any cavities or pores beforehand by means of brushing or scratching. Subsequently, apply **MS05** fresh-in-fresh in one step and smooth it after a suitable waiting time. Please contact our customer service department for technical advice when applying by injection.

**Temperature range:** + 5 °C to + 35 °C

**Mixing water:** Drinking water quality

### FOLLOW-UP TREATMENT:

Exposed grout areas must be protected from premature water evaporation (from wind, draughts, direct exposure to sun) immediately on completion of the work for a period of 3-5 days.

### Suitable curing methods:

Water spray, foil covers with jute sheets, thermofoils or moisture-retaining covering sheets, **O2C CONCRETE PROTECTIVE PAINT**. The technical data sheet must be observed when using **O2C CONCRETE PROTECTIVE PAINT**.