

# INDUSTRIAL FLOOR

## IB20 INDUSTRIAL FLOOR (0-2 mm)

### TEST CERTIFICATES AND SUPPORTING DOCUMENTS

- › Product acc. to DIN EN 13813 "Cement-based screeds for wearing layers"
- › High penetration resistance against water-polluting substances - Verification by test certificate
- › Factory production control acc. to DIN EN 13813
- › Company certification acc. to DIN EN ISO 9001:2015

### PROPERTIES

- › Ready to use industrial floor mortar, only requires mixing with water
- › Easy to process
- › Quick hardening and early load-bearing capacity
- › Low shrinkage
- › Abrasion proof
- › Impermeable to water and largely resistant to mineral oils and fuels
- › Stress groups II and III (DIN 18560-7)
- › Residual moisture after 24 h < 4 % (CM device)
- › Complies with the requirements of building material class A1 (non-combustible) as specified under decision 2000/605/EC of the European Commission dated September 26, 2000 (published in the official journal L258)

### AREAS OF APPLICATION

- › Industrial floor subject to heavy-duty use
- › Aircraft hangars
- › Car parks
- › Workshops and garages
- › Exhibition halls
- › Market halls

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

Moisture class	WO	WF	WA	WS
<b>IB20</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.

#### EXPOSURE CLASS ALLOCATION ACC. TO: DIN EN 206-1 / DIN 1045-2

	XO	XC	XD	XS	XF	XA	XM
	1	2	3	4	1	2	3*
<b>IB20</b>	•	•••••	•••	•••	•••	••	••

\* Having sulfate attack up to 600 mg/l

## TECHNICAL DATA

TYPE	IB20		
Grain size	mm		0-2
Amount of water	max.	%	10
Processing time approx.	20 °C	min	30
Consumption approx.		kg/(m <sup>2</sup> · mm)	2.0
Fresh mortar raw density		kg/m <sup>3</sup>	2,200
Layer thickness (in total, 2 layers)		mm	10-100
Compressive strength*	1 d	N/mm <sup>2</sup>	≥ 20
	7 d	N/mm <sup>2</sup>	≥ 40
	28 d	N/mm <sup>2</sup>	≥ 60
Bending tensile strength*	1 d	N/mm <sup>2</sup>	≥ 3
	7 d	N/mm <sup>2</sup>	≥ 5
	28 d	N/mm <sup>2</sup>	≥ 7
Adhesive pull strength	28 d	N/mm <sup>2</sup>	≥ 2.0
Residual moisture (CM device)	24 h	%	≤ 4

\* 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:** 6 months. Cool, dry, free from frost.

Unopened in its original container.

**Delivery form:** 25-kg bag, Euro palette 1,000 kg

**Hazard class:** Non-hazardous material, observe information on packing.

**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.)

## APPLICATION

### 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 (1.5 N/mm<sup>2</sup>, KEW 1.0 N/mm<sup>2</sup>) must be ensured.

### Prewetting:

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

### Reinforcing steel:

Blast all rust off exposed reinforcement bars until the underlying metal has been exposed acc. to purity grade SA 2 ½ in accordance with DIN EN ISO 12944-4.

### CORROSION PROTECTION:

Apply two complete coats of **RM02** CORROSION PROTECTION using a brush.

### 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.

### BONDING AGENT:

Use a brush or broom, and brush **IH10** INDUSTRIAL FLOOR BONDING AGENT onto the prewetted, slightly moist 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. The technical data sheet **IH10** INDUSTRIAL FLOOR BONDING AGENT must be observed.

### APPLICATION:

Apply compressively to the bonding layer before it starts setting using conventional tools, distribute and smoothen. It is possible to mechanically smooth the mortar surfaces.

**Temperature range:** + 5 °C to + 30 °C

**Mixing water:** Drinking water quality

### FOLLOW-UP TREATMENT:

Fresh mortar areas must be protected from premature water evaporation (from wind, draughts, direct exposure to sun, etc.) 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, **O1** EVAPORATION PROTECTION. The technical data sheet must be observed when using **O1** EVAPORATION PROTECTION.

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](http://www.pagel.com).

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