

# PAGEL®-STEEL-FIBRE FLOOR

## PROPERTIES

- **steel-reinforced industrial floor** for particularly high stresses - cement based hard substance group **A** (DIN 1100) stress group: heavy (DIN 18560, part 7)
- contains **steel fibres**, can also be supplied with fine steel fibres
- **good adhesion** on supporting substrate
- develops **very high strengths** – in particular the binding strengths and shear strengths guarantee an almost indestructible floor with the highest resistance against recognisable loads
- **impermeable to water** and resistant to oil
- **also proves reliable** when overloading would under normal circumstances result in material rupture
- **easy-to-use** and economical
- **improves** heat conductivity
- P 3A can also be supplied as **PCC-floor** or with **basalt aggregates**
- **monitored** in accordance with standards and directives currently in force, production certified in accordance with **ISO 9001**
- is supplemented by the following products:

P 3A      PAGEL-STEEL-FIBRE FLOOR  
P 3A/15      PAGEL-STEEL-FIBRE FLOOR

## FIELDS OF APPLICATION

- **Industrial floors** with high stresses
- **ramps**
- **storehouses**, factories
- **roller beds**, roller conveyors, transport routes
- **working and belt conveyor flights**
- **tank halls**, garages and workshops

P 3A

P 3A/15

Assigning to expositioncategory according to:  
DIN 1045-2 / EN 206-1:

### PAGEL – STEEL-FIBRE FLOOR

	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
P 3A	*	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •
P 3A/15	*	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • •



# PAGEL®-STEEL-FIBRE FLOOR

P3A

P3A/15

## TECHNICAL DATA

TYPE	P3A * P3A/15 **		
<b>Granulation</b>	mm	0-8	0-5
<b>Layer thickness</b>	mm	20-80	20-80
<b>Quantity of water</b>	%	10-12	10-12
<b>Processing time</b>	min.	app. 40	app. 40
<b>Consumption with 10 mm layer thickness</b>	kg/dm <sup>3</sup>	22	25
<b>Compressive strength</b>	1 d N/mm <sup>2</sup>	≥ 45	≥ 50
	7 d N/mm <sup>2</sup>	≥ 70	≥ 75
	28 d N/mm <sup>2</sup>	≥ 80	≥ 85
<b>Bending strength</b>	1 d N/mm <sup>2</sup>	-	≥ 6
	7 d N/mm <sup>2</sup>	-	≥ 9
	28 d N/mm <sup>2</sup>	-	≥ 11
<b>Adhesive strength</b>	28 d N/mm <sup>2</sup>	≥ 2.0	≥ 2.0

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

\* DIN EN 12390-3-compliant compressive strength testing

\*\* DIN EN 196-1-compliant compressive strength testing

**Shelf-life:** 9 month, in dry and closed bags  
**Packaging:** 25-kg-bag  
**Hazard class:** no dangerous goods, please watch the material safety sheet



CE Mark and EC conformity according to EN 934-4:2001/A1:2004  
 Reg.-No.: 0921-BPR-2010  
 EN 934-4 compliant grout additive



PAGEL® Spezial-Beton GmbH & Co. KG  
 D-45355 Essen

find the printed batch number

P3A EN 13813 CT C80 F10 A9

P3A/15 EN 13813 CT C80 F10

P3A u. P3A/15 PAGEL®-STEEL-FIBRE FLOOR  
 CEMENT SCREED

	P3A	P3A/15
Fire behaviour	A1 <sub>f</sub>	A1 <sub>f</sub>
Compressive strength	C80	C80
Bending tensile strength	F10	F10
Release of corrosive substances	CT	CT
Water permeability	NPD	NPD
Water vapour permeability	NPD	NPD
Abrasion resistance	A9	NPD
Sound insulation	NPD	NPD
Sound absorption	NPD	NPD
Thermal insulation	NPD	NPD
Resistance to chemicals	NPD	NPD

NPD: „No Performance Determined“

## PROCESSING

**SUBSTRATE:** Clean thoroughly. Remove from the supporting floor any cement slurries, dust, loose parts, oil, fats and other contamination, e.g. by milling, shot blasting or high-pressure water blasting. The supporting concrete surface must be clean, firm and have a good feel. For industrial floors the supporting concrete – minimum quality B25 – must be in accordance with DIN 1045. Surface strength is to be a minimum of 1.5 N/mm<sup>2</sup>. Wet the substrate on the day before laying. The pre-wetted supporting concrete must have its surface dried-off matt-moist – no pools may be at all allowed to form.

**ADHESION LAYER:** Stir MSO2 PAGEL-ADHESION-LAYER with the specified maximum quantity of water as slurry and brush deep into the pores of the damp substrate or apply an EH1 PAGEL-EPOXY-RESIN-ADHESION-LAYER to dry substrate.

**MIXING:** The mortar is ready-for-use and only has to be mixed with water. Apart from a residual quantity, pour water 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:** Apply wet-on-wet to the not yet set adhesion layer easily and without problems with the usual tools. Subsequently the surface is smoothed with a smoothing trowel or a power floating machine.

**CAUTION:** Exposed surfaces are to be protected against wind, draughts and premature water evaporation e.g. with film, O1 PAGEL-SURFACE-PROTECTION or EH 136 PAGEL-RESIN.

[www.superbeton.su](http://www.superbeton.su)  
 (495) 648-52-04

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](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](http://WWW.PAGEL.COM) · E-MAIL: [INFO@PAGEL.COM](mailto:INFO@PAGEL.COM)