



PAGEL®-INDUSTRIAL FLOOR BONDING LAYER

PROPERTIES

- High-quality bonding layer for industrial mineral floor coatings
- The low water/cement ratio of this material enables the rapid formation of extremely high adhesive tensile strengths between the concrete base and relevant industrial floor coating
- Also protects exposed steel reinforcements against corrosion thanks to its high alkali content
- Is extremely ductile and can also be used as a bonding layer on sloping surfaces (e.g. such as ramps and driveways)
- Easy to prepare and apply – only needs to be mixed with water
- Free from chloride and corrosive substances
- Produced and certified to ISO 9001
- The PAGEL INDUSTRIAL FLOOR BONDING LAYER series comprises:

PH10 INDUSTRIAL FLOOR
BONDING LAYER (0-1 mm)

AREAS OF APPLICATION

FIELDS OF APPLICATION

- Suitable for use as a bonding layer for high-strength and wear-resistant industrial floor coatings
- Suitable for use as a bonding layer for heavy-duty industrial floor coverings
- Suitable for use as a bonding layer for concrete bases of a strength comparable to concrete strength class C20/25
- Suitable for use as a bonding layer for large-scale industrial floor covers of a strength comparable to concrete strength class C30/37
- Suitable for use as a bonding layer for:

P3A	PAGEL-STEEL FIBRE FLOOR
P3A/15	PAGEL-BASALT FLOOR
P40	PAGEL-INDUSTRIAL FLOOR
P80	PAGEL-INDUSTRIAL FLOOR

PH10

PH15



PAGEL®-INDUSTRIAL FLOOR BONDING LAYER

PH10

PH15

TECHNICAL DATA

TYPE		PH10	PH15
Particle size	mm	0-1	0-2
Components		1	1
Amount of water	%	16	16
Consumption	kg/dm ³	2-4	2-4
Level of expansion (without being levelled)	cm	18-22	18-22
Preparation time	at 10°C min app. 90 at 20°C min app. 60 at 30°C min app. 45		app. 90 app. 60 app. 45
Minimum application temperature	°C	+5	+5
Density of freshly mixed mortar	kg/dm ³	2.24	2.30
Adhesive tensile strengths*	24 h N/mm ² 7 d N/mm ² (10 mm layer) 28 d N/mm ²	1.1 1.8 2.2	1.1 2.2 2.4
All test data are guide values, proofed in our German manufacturing plants, - values from other manufacturing plants may vary.			

* Test documents: Blasting of Strength Grade C30/37 concrete bases
with solid blasting agents.

Wetted 24 h in advance. Material consumption for bonding layer = 2 kg/m².

Test temperature: 20 °C

Storage: Can be stored for up to 9 month in
a dry and well-closed bags

Packaging: 25-kg bag

Hazard class: Non-dangerous goods; please read
the information on the packaging

GISCODE: ZP1



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

www.superbeton.su
(495) 648-52-04

APPLICATION

SUBSURFACE: The (concrete) substrate must be solid, slightly roughened, able to take a load, and free from hollow areas and holes near the surface. All cement slurries or other substances on the surface that are unable to take loads must be fully removed. The surface must have a verifiable tensile strength of at least 1.5 N/mm². When used as a bonding layer for large-scale industrial floors, this surface tensile strength must verifiably amount to at least 2.0 N/mm². Wet the floor until saturated. Saturate any cracks in the concrete base with water and close up or grout. Remove all filling material residues from the surface once the repairs have been completed. The (concrete) substrate must not be subject to the development of any cracks. Keep wetting the substrate over a certain period of time (generally, 24 h) until all capillary action ceases. The (concrete) substrate must be no more than slightly damp when applying the bonding layer.

MIXING: PH10 / PH15 PAGEL-INDUSTRIAL FLOOR BONDING LAYER is supplied ready-for-use and only needs to be mixed with water. Pour all of the water, with the exception of a small amount, into a compulsory mixer. Add the dry mortar and mix for approx. 3 minutes. Add the remaining water and mix for another 2 minutes. Smaller quantities can be mixed slowly in a suitable container using a drill with a dual rod agitator until thoroughly mixed. This mixture does not need to be left to settle before application.

APPLICATION: PH10 / PH15 PAGEL-INDUSTRIAL FLOOR BONDING LAYER to the thoroughly wetted, air-dried and slightly damp (concrete) substrate and work evenly into the surface with a hard brush. Always make sure to create a consistent layer of the bonding material at an appropriate thickness on top of the substrate before applying the next coating.

The next coating must be applied straight after applying the bonding layer and before the bonding layer has set. If the application of the bonding layer is stopped before completing the entire floor, or if it starts to set, it must be left to fully harden. Repeat the above application process after allowing an appropriate period of time for it to harden.

Please contact our customer service department in the event the floor is subject to frost, since low temperatures prolong the hardening and strength development of the layer and diminish flowability, while high temperatures speed these processes up. Cold mixing water will impede flowability.

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 you 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.



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