

P11

PAGEL®-HARD-SUBSTANCE-FLOOR MINERAL SPRINKLED FLOOR

PROPERTIES

- **wear value:** 2,8 cm³/50 cm²
- **high-quality quartzite** and igneous rock, dross from metallurgical smelting processes
- **hard substance group A** (DIN 1100)
- high **abrasion resistance** resistance even with the heaviest loading, resistant to stacker trucks
- **monolithic** bond with the substrate
- **economical** as a result of its high durability
- **long durability**
- **meets extreme demands** for step-safety as well as for shock and impact effects caused by iron wheels
- **tight** surface structure, does not rust and is resistant to dew-salt
- does not produce dust, is anti-skid and water-resistant
- no electrostatic charging
- **problem-free** and time-saving processing
- **monitored** in accordance with standards and directives currently in force, production is certified in accordance with **ISO 9001**
- P11 is supplemented by the following products:
 - P12 PAGEL-MINERAL-SPRINKLED-FLOOR, wear < 5 cm³/50cm²
 - P13 PAGEL-MINERAL-SPRINKLED-FLOOR, wear < 7 cm³/50cm²
 - P22 PAGEL-READY-TO-USE-FLOOR with P11 hard substance granulate

FIELDS OF APPLICATION

- car industry
- machine construction
- factory halls
- storage halls
- workshops
- garages
- ramps
- super-markets
- open space



P11 PAGEL®-HARD-SUBSTANCE-FLOOR

TECHNICAL DATA

TYP		P11	P12	P13	
Grain	mm	0-4	0-5	0-4	
Consumption					
with 10 mm layer thickness	kg/m ²	14	14	14	
Hardsubstance Group (DIN 1100)		A	A	A	
Abrasion (Böhme) cm ³ /50 cm ²		2.4	2.7	2.8	
Mixing ratio					
with cement		3:1	3:1	2:1	
Compressive strength	1 d	N/mm ²	35	32	33
	3 d	N/mm ²	48	44	42
	7 d	N/mm ²	65	58	55
	14 d	N/mm ²	72	70	68
	28 d	N/mm ²	90	95	85
Bending strength	1 d	N/mm ²	6.5	6.4	6.5
	3 d	N/mm ²	8.2	8.0	7.9
	7 d	N/mm ²	9.5	9.2	9.0
	14 d	N/mm ²	10.4	10.4	9.8
	28 d	N/mm ²	11.2	11.0	10.8

Supplied in: 25-kg-bag, 1000 kg-big-bag
Storage: dry, frost-free
Shelf-life: 12 months in sealed bags
Hazard class: no dangerous substance
observe safety data sheet

All the specified test data were determined at 20 °C and the strengths were determined with a CEM I 42.5 R on prisms (4x4x16 cm).

PROCESSING

SUBSTRATE: The prerequisite for the proper processing of P11 is the correct initial consistency of the composite mortar/concrete. It is recommended that the supplied concrete for the transition layer in accordance with DIN 18560 T7 paragraph 3.4.3 be delivered stiff and the necessary consistency be adjusted at the building site. The surface is to be matt-moist and not yet solid and there must not be any sinking-in.

MIXING: 3 parts of P11 and 1 part cement are to be slightly dampened with water and pre-mixed in a forced circulation mixer. The same cement is to be used as in the transition layer.

PROCESSING: The whole quantity is applied in two processes. It is uniformly sprinkled and allowed to set and then rubbed in by hand or with a plate smoothing machine.

Subsequently the surface is to be 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.

Information provided in this leaflet, supplied by our applications consulting service and contained in other recommendations is based on exhaustive research work and extensive experience. It is, however, without liability on our part, in particular with regard to third parties proprietary rights, and does not relieve the user of the responsibility for verifying that the products and processes are suitable for the intended application. The given testing dates were found out when having a temperature of 20 °C and mean average values and analysis. Deviations are possible when delivery takes place. 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.



PAGEL®

SPEZIAL-BETON GMBH & CO. KG

WOLFSBANKRING 9 · D-45355 ESSEN

TEL. +49(0)201-68504-0 · FAX +49(0)201-68504-31

Internet: www.pagel-grout.com · eMail: info@pagel-grout.com

P11

P12

P13