E-mail: mail@superbeton.su Cell phone: 8-926-535-39-36 Internet: www.superbeton.su





FE20

PAGEL®-LEVELLING-SCREED

PROPERTIES

- · high-quality cement-bound levelling screed based on Portland Cement, of high density for internal and external applications
- · consists of just one component, when mixed with water it is ready for use
- · high flowability, it is easy to use and therefore very economical
- · develops high early-strength (24 h approx. 25 N/mm² / 20 °C) and can be walked on after 3 hours (20 °C)
- · low residual moisture (after 24 h > 4.0 vol.% / 20 °C) makes a following coating possible after 2 hours
- the surface can be prepared in either smooth or sand dressed finish
- through machine installation (pumping) application time can be reduced and building progress can be increased
- resistant to frost and dew-salt, impervious to water and resistant to oil and chemicals
- · plastic fibres (alkali resistant) allow a joint free installation with the exception of building joints
- · CE conformity in accordance with DIN EN 13813: 2002 screed mortar and screed masses
- · is subject to our own constant companyowned production control (WPK)
- is monitored in accordance with the valid standards and guidelines in force and production is certified in accordance with **ISO 9001**

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PAGEL® Spezial-Beton GmbH & Co. D-45355 Essen	ΚG						
find the printed batch number							
EN 13813 CT C50 F7 A15							
FE2O PAGEL®-LEVELLING SCREED CEMENT SCREED							
Fire behaviour Compressive strength Bending tensile strength Release of corrosive substances	A1 _{fl} C50 F7 CT						
Water permeability Water vapour permeability Abrasion resistance Sound insulation	NPD NPD A15 NPD						
Sound absorption Thermal insulation Resistance to chemicals	NPD NPD NPD						
NPD: "No Performance Determined"							

FIELDS OF APPLICATION

- · composite screed for industrial floors and balance layers up to a gradient of 1.5 %
- screed linings for living and industrial-buildings inside and outside
- concrete-floors, industrial- and storage halls
- · garages, parking places and balconies
- terraces and cellars
- floor for linings and coatings

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

FE20 PAGEL - LEVELLING SCREED

			XF 1 2 3 4		
FF20	•	 	 	• •	• •





FE20

TECHNICAL DATA			
TYPE			FE20
Grain size		mm	0-2,0
Layer thickness		mm	5–20
Quantity of water		%	17–19
Consumption		kg/dm³	1,8
Processing time 20°C		Minuten	арр. 15
Measure of flow		mm	720
Measure of extension		mm	арр. 300
Viscosity		%	+ 0,5
Density of freshly mixed mo	kg/dm³	2,11	
Compressive strength*	1 d	N/mm ²	≥25
(DIN 1164)	7 d	N/mm²	≥45
	28 d	N/mm ²	≥55
Bending strength	1d	N/mm²	≥4
	7 d	N/mm²	≥6
	28 d	N/mm²	≥8

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

Supplied in: 25 kg bags **Storage:** dry, frost-free

Shelf-life: 6 months in sealed bags Hazard Class: no dangerous goods

observe security instructions

Resistance to BCA check after

wear and tear: DIN 13892-4 = 0,107cm³ and 4μ m

Reistance class AR 0,5 (\leq 50 μ m) EN 13813 for cementous SVM \leq AR6

(≤ 600 um)

EFNARC for cementous

Industrial floors \leq AR2 (\leq 200 μ m)

Specialist Company «ASOKA» Khayrullin Ruslan

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PROCESSING

Requirements:

Carefully clean, remove loose and unsound material as well as cement slurries etc. by scrabbling or blasting. The subsoil must have a sufficient adhesive strength of at least > 1,5 N/mm². In case preparing takes place using either a cutter or under high water pressure the subsoil must be treated by shot peening (in the cross way). The subsoil must be free of cracks and rough (capillary open). Average out excarvations and deeper unevenesses (for example by applying PAGEL U1O-Adhesion-Layer and PAGEL U4O-and/or PAGEL U8O-LEVEL-REGULATING MORTAR. Pre-water till saturation (12 – 24 hours), stagnant water must be sucked. The self-levelling floor is applied onto the matt-damp subsoil.

FORMWORK AND JOINTS: Enclose if necessary the concrete area to be coated using a formwork (not porous). Structural joints must be taken on. 24 hours after applying FE2O recut the coating above the structural joints. Levelling takes place by using a gauge and/or rails.

MIXING: To mix FE 2O use a compulsory type mixer only:

- hand-mixing machine with slow working contra-rotating mixing arms
- · plate mixer
- · continuous mixer with a mono pump

When mixing bags fill in approx 3/4 of the water amount, add the dry mortar and mix for about 3 minutes, add the remaining water and mix for further 2 minutes. Do not mix more FE2O mortar than you are able to use within 30 minutes.

PROCESSING (by hand): Pour FE2O onto the matt damp subsoil, spread out and level by using a tooth screed. Once a rough subsoil has been applied spread the mortar using a smoothing screed, without skids in a thin layer using the same as a level regulating mortar and an adhesion layer. Then apply FE2O in the required layer thickness "fresh-in-fresh". Ventilating with a spiked roller is only necessary when air bubbles rise through the mortar to the surface. The mortar is to be levelled and spread with the help of a turned round screeder – as a finishing float – above the aligned level point.

PROCESSING (mechanically): FE20 may be mixed by using the continuous mixer "Uelzener-Estromat 402" and with the help of a mono pump PFT N2V (Vario) the material can be conveyed. In case of a variating water pressure a pressure increasing pump can be connected. Convey the mortar out of the mixing pipe into the pump and out of the pump by using a tube with the maximum length of 40 m and a diameter of 35 mm. Having a max. conveying speed may depend on the capacity of the worm conveyor, 2,500 kg/h is feasable.

CURING: FE2O can normally be walked on after 2-3 hours. Surface protection is necessary to prevent wind, draught and premature evaporation. It needs to be applied for approx. 3 days using a product such as O1 PAGEL-EVAPORATION-PROTECTION or by spraying water and/or using a plastic foil. In case quartz sand (grain) is to be spread onto the surface this has to take place within 30 minutes. After 12 hours at the earliest remove any loose sand by brushing-off or hoovering. Make sure that the surface is still wet for approx. 3 days.

COATING: In case of a following coating with for example reaction resin a curing time of 12 hours using water and/or plastic foil is sufficient. After 12 hours the surface can be prepared for coating by using either a screed grinding- or a shot peening machine. (Residual moisture after 24 h: 4 vol.%/20°C)

The information provided in this leaflet, is supplied by our consulting service and is the end result of exhaustive research work and extensive experience. They are, however, without liability on our part, in particular with regard to third parties proprietary rights, and do not relieve the user of the responsibility or verifying that the products and processes are suitable for the intended application. The data presented was derived from tests under normal climate conditions according to DIN 50014 and mean average values and analysis. Deviations are possible when delivery takes place. Given that recommendations may differ from those shown in this leaflet written confirmation should be sought. It is the responsibility of the purchaser to ensure they have the latest leaflet issue and that its contents are current. 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. Please find the latest leaflet issues at www.pagel.com.







^{*} DIN EN 196-1-compliant compressive strength testing