

PRODUCT DESCRIPTION	Two-component self-leveling floor coating based on epoxy resin, solvent-free.
PURPOSE	<ul style="list-style-type: none"> > Self-leveling coating for protection and decoration of concrete floor surfaces and cement glaze exposed to medium to heavy mechanical and chemical wear (warehouses, workshops, production facilities, garages, laboratories, loading ramps, etc.); > The broadcast screed system with slip resistant floor surface in garages and production facilities with the so-called "wet" processes.
PROPERTIES	<ul style="list-style-type: none"> > Exceptional abrasion resistance and resistance to action of water and chemicals (see chemical resistance list); > Highly fillable with quartz sand (economical protection in thick layers); > Functional layer in systems with slip resistant surface.
DENSITY	<ul style="list-style-type: none"> > Component A: 1,74-1,78 kg/l; > Component B: 1,0 kg/l; > Mixture (A+B): 1,56-1,58 kg/l > Mixture (A+B)+quartz sand - 1: 0,5: 1,81-1,82 kg/l
TECHNICAL DATA	<p>Mixing ratio (by mass):</p> <ul style="list-style-type: none"> > Component A : Component B – 83,3 : 16,7 (100 : 20) <p>Solid content:</p> <ul style="list-style-type: none"> > By weight: 100% > By volume: 100% <p>Pot life:</p> <ul style="list-style-type: none"> > 25 min under standard conditions <p>Drying/hardening time under standard conditions:</p> <ul style="list-style-type: none"> > dust dry: after cca 12 hours > light foot traffic: after cca 24 hours > full cure: after 7 days <p>Shore D Hardness: ~ 78 (7 days, 23°C, 60% RAH);</p> <p>Compressive Strength:</p> <ul style="list-style-type: none"> > ~ 67,5 N/mm² (filled with 50 % quartz sand 0,1 -0,5); after 30 days of conditioning (23 °C, 60% RAH); <p>Flexural Strength:</p> <ul style="list-style-type: none"> > ~ 26,2 N/mm² (filled with 50 % quartz sand 0,1 -0,5); after 30 days of conditioning (23 °C, 60% RAH); <p>Adhesion Strength:</p> <ul style="list-style-type: none"> > 5,5 N/mm² (100 % cohesive failure in concrete); after 30 days of conditioning (23 °C, 60% RAH); <p>Abrasion resistance</p> <ul style="list-style-type: none"> > (Taber abramer test, CS 10/1000/1000 g): 60 mg (7 days, 23 °C, 60% RAH);
THERMAL RESISTANCE	<ul style="list-style-type: none"> > Continuous exposure: +50 °C; > Longer exposure (up to 7 days): +80 °C > Short-term exposure (up to 12 hours): +100 °C
APPLICATION CONDITIONS	<ul style="list-style-type: none"> > Substrate and air temperature: min. +10 °C; max. +30 °C > Relative air humidity: max. 75 %, with adequate ventilation. > There must be no condensation. Pay attention to the dew point.
SUBSTRATE QUALITY	<ul style="list-style-type: none"> > Compressive strength: min. 25 N/mm² > Bond strength (pull-off test): min. 1,5 N/mm² > The surface must be dry and clean. > Substrate moisture: max. 4%
SUBSTRATE PREPARATION	<p>Mechanical treatment (grinding and /or blasting) to remove bumps and weakly bound surface layer and surface contamination.</p> <p>The cracks, pores and uneven sections should be filled with suitable material. Remove dust and loose parts by using a vacuum cleaner or brush.</p>
MATERIAL PREPARATION	<p>Stir the component A. Then add component B into component A and mix thoroughly with a mixer with a low speed (max. 400 r / min) until a homogeneous mixture. Into the mixture (A + B) then add 50% by weight of quartz sand 0.1-0.5 mm and mix for 2 minutes. Then pour the mixture into another container and mix again.</p>

APPLICATION METHOD	Apply by notched trowel (tooth size 4 mm). Immediately after applying with the notched trowel, cross the surface with a spiked roller in order to equalize the thickness and purge air.		
PROTECTION SYSTEMS	Smooth layer (layer thickness 1,5 -3,0 mm) :		
	Function	Product	Consumption
	Primer	Floor Expert EP 101 (1x)	0,30-0,50 kg/m ²
	Self-levelling screed	Floor Expert EP 211 (A+B): Quartz sand 0,1-0,5 – 1 : 0,5	1,83 kg/m ² of the mixture per 1 mm of the layer thickness (1,22 kg of the mixture (A+B); 0,61 kg Quartz sand 0,1-0,5)
	Slip resistant surface, layer thickness 4 mm:		
	Function	Product	Consumption
	Primer	Floor Expert EP 101 (1x)	0,3-0,5 kg/m ²
	Self-levelling screed	Floor Expert EP 211 (A+B) : Quartz sand 0,1-0,6 mm – 1 : 0,5	3,66 kg/m ² (2,44 kg of the mixture (A+B), 1,2 kg Quartz sand 0,1- 0,5 mm)
	Broadcasting (until saturation)	Floor expert quartz 0,3-0,9 mm	6,0 kg/m ²
	Seal coat	Floor Expert EP 311 (1x)	0,7 kg/m ²
PACKAGING		Component A	Component B
	25 kg (A+B)	20,8 kg	4,2 kg
COLOUR RANGE/GLOSS	Standard offer: RAL 7032, RAL 7030, RAL 7035, RAL 7037, RAL 7040; other shades on request. High gloss		
STORAGE	In dry and airy rooms in originally sealed containers at temperatures from +5 °C to +25 °C. Shelf life: 24 months		
NOTES	When installing the floor on a single surface (continuous application), always use the material with the same batch number. Otherwise slight deviations in the shade may occur. Epoxy coatings are not stable under UV exposure conditions and are generally not suitable for outdoor application. Extremely abrasive mechanical loads leave scratch marks and floor wear, which must be taken into account when applying these coatings.		

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