

PU 211 HE

PRODUCT DESCRIPTION	Two-component hard elastic self-levelling floor coating based on polyurethane resin, solvent-free.
PURPOSE	Self-levelling floor coating for protection and decoration of concrete floor surfaces and cement glaze exposed to medium heavy mechanical and chemical wear (industrial flooring, shops, schools, hospitals, offices, halls and lobbies); For interior floor surfaces only.
PROPERTIES	<ul style="list-style-type: none"> • Hard surface but flexible film • Good mechanical resistance • Solvent free • Easy maintenance of the floor surfaces
DENSITY	<ul style="list-style-type: none"> • Component A: 1,38 -1,42 kg/l; • Component B: 1,23 kg/l; • Mixture (A+B): 1,35 – 1,38 kg/l
TECHNICAL DATA	<p>Mixing ratio (by mass):</p> <ul style="list-style-type: none"> • Component A : Component B – 81,3 : 18,7 <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"> • 20 min under standard conditions <p>Drying/hardening time under standard conditions:</p> <ul style="list-style-type: none"> • light foot traffic: after cca 24 hours • full cure: after 7 days <p>Shore D Hardness: 60-70 (7 days, 23°C, 60% RAH);</p> <p>Adhesion Strength:</p> <ul style="list-style-type: none"> • > 1,5 N/mm² (100 % cohesive failure in concrete); after 30 days of conditioning (23 °C, 60% RAH); <p>Abrasion resistance (Taber abraser test, CS 10/1000/1000 g): 60 mg (7 days, 23 °C, 60% RAH);</p>
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	Mechanical treatment (grinding and /or blasting) to remove bumps and weakly bound surface layer and surface contamination. The cracks, pores and uneven sections should be filled with suitable material. Remove dust and loose parts by using a vacuum cleaner or brush.
MATERIAL PREPARATION	Stir the component A. Then add component B into component A and mix thoroughly for 2 minutes with a low- speed mixer (max. 400 r / min) until a homogeneous mixture. To ensure thorough mixing, pour the mixture into another container and mix again. Over-mixing of the material increase air entrapment and should be avoided.
APPLICATION METHOD	Apply by pin rake or notched trowel. 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 1,0 -2,0 mm) :		
	Function	Product	Consumption
	Primer	Floor Expert EP 101 (1x)	0,30-0,50 kg/m ²
	Self-levelling screed	Floor Expert PU 211 HE (A+B)	1,35 kg/m ² of the mixture (A+B) per 1 mm of the layer thickness.
	Transparent top-coat (option)	Floor Expert PU 300W (A+B)	0,08 -0,12 kg/ m ²
PACKAGING		Component A	Component B
	25 kg (A+B)	20,33 kg	4,67 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	<p>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.</p> <p>Floor expert PU 211 HE as a finishing layer is not stable under UV exposure conditions and it is not suitable for outdoor application. For outdoor areas we recommend the application of Floor expert PU 310 as a finishing layer.</p> <p>Freshly applied Floor expert PU 211 HE is sensitive to moisture and special care should be taken to avoid the contact with the moisture during application and curing.</p> <p>Avoid heating the space by gas or oil heating devices during application and curing of the material, since they release of CO₂ and water vapor and that could negatively impact the surface of the material.</p> <p>Do not apply the material on vertical and slanted surfaces.</p> <p>Extremely abrasive mechanical loads leave scratch marks and floor wear, which must be considered when applying these coatings.</p> <p>Tinted products produced in universal tinting system should rest at least 24 h before application, to prevent the formation of pigment spots on the surface.</p>		

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