

EP 101

PRODUCT DESCRIPTION	Two-component primer based on epoxy resin, solvent-free
PURPOSE	<ul style="list-style-type: none"> • Priming of concrete floors and cement glaze of moderate to strong absorbency; • Binder for levelling mortars and mortar screeds • Used in FLOOR EXPERT EP floor systems.
PROPERTIES	<ul style="list-style-type: none"> • penetrates deeply into the surface • blocks the moisture in the substrate up to 4% • High bond strength to the substrate • Easy application
DENSITY	<ul style="list-style-type: none"> • Component A: 1,12 kg/l; • Component B: 1,04 kg/l; • Mixture (A+B): 1,1 kg/l
TECHNICAL DATA	<p>Mixing ratio (by mass):</p> <ul style="list-style-type: none"> • Component A: Component B – 66,9 : 33,1 <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 approx. 10 - 12 hours • foot traffic: after approx. 24 hours <p>Compressive Strength:</p> <ul style="list-style-type: none"> • ~ 94,2 N/mm² (mixture (A+B) : quartz sand – 1 : 3); after 30 days of conditioning (23°C, 60% RAH); <p>Flexural Strength:</p> <ul style="list-style-type: none"> • ~ 37,97 N/mm² (mixture (A+B) : quartz sand – 1 : 3); after 30 days of conditioning (23°C, 60% RAH); <p>Adhesion Strength:</p> <ul style="list-style-type: none"> • ~ 4,4 N/mm² (100 % cohesive failure in concrete); after 30 days of conditioning (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. Then pour the mixture into another container and mix again.</p>

APPLICATION METHOD	As a primer apply by short-piled roller, brush or rubber wiper. The coating should entirely cover the surface. If necessary, apply in two layers. Mortar for smoothing rough surfaces is applied with a rubber trowel or toothed trowel, depending on the thickness.			
PROTECTION SYSTEMS	Primer:			
	Substrate	Product	Consumption	
	Concrete of medium absorbency	Floor Expert EP 101 (1x)	0,30-0,40 kg/m ²	
	Concrete of high absorbency	Floor Expert EP 101 (1x)	0,40-0,50 kg/m ²	
	Epoxy levelling mortar, thickness up to 1 mm:			
	Function	Product	Consumption	
	Primer	Floor Expert EP 101 (1x)	0,3-0,5 kg/m ²	
	Epoxy levelling mortar	Floor Expert EP 101 : Quartz sand 0,1-0,6 mm - 1 : 0,5	1,35 kg/m ² /per mm layer (0,90 kg of the mixture (A+B); 0,45 kg of quartz sand).	
	Epoxy levelling mortar, thickness up to 2 mm:			
	Function	Product	Consumption	
	Primer	Floor Expert EP 101 (1x)	0,3-0,5 kg/m ²	
	Epoxy levelling mortar	Floor Expert EP 101 : Floor expert quartz mix - 1 : 1	1,6 kg/m ² /per mm layer (0,8 kg of the mixture (A+B); 0,8 kg of quartz sand).	
	Epoxy screed (15-20 mm):			
	Function	Product	Consumption	
	Primer	Floor Expert EP 101 (1x)	0,3-0,5 kg/m ²	
	Bonding bridge	Floor Expert EP 101 (1x)	0,3-0,5 kg/m ²	
	Epoxy levelling mortar	Floor Expert EP 101: Floor Expert quartz mix - 1 : 10	2,4 kg/m ² / per mm layer	
PACKAGING		Component A	Component B	Enough for
	10 kg (A+B)	6,69 kg	3,31 kg	approx. 25 m ²
	25 kg (A+B)	16,73 kg	8,28 kg	approx. 62,5 m ²
COLOUR RANGE/GLOSS	Transparent, glossy.			
STORAGE	In dry and airy rooms in originally sealed containers at temperatures from +5 °C to +25 °C. Shelf life: 24 months			

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