ECOFONDO PLUS

THREE-COMPONENT EPOXY PRIMER WATER-BASED (A+B+C)

DESCRIPTION

Three-component formulation based on water-based liquid epoxy resins and hydraulic binders, used as a base for surfaces, even wet and counterthrust, to obtain the vapor barrier effect for reverse hydrostatic pressure values of 250 kPa.

USE

Connecting layer and regularization of cement surfaces.

Base layer for resinous floor coverings in the presence of damp substrates.

Grouting of pitting and surface cracks.

Primer for tile supports.

SUPPORT

The substrate must have a minimum compressive strength of 25 N/mm^2 and a tensile strength of 1.5 N/mm^2.

PREPARATION OF THE SUPPORT

The support must be properly cleaned manually and / or mechanically in order to eliminate non-cohesive parts, encrustations, efflorescence, dust and grease.

Flooring must be treated mechanically, by sanding, shot peening or milling.

Surfaces tending to flour should be treated in advance with a recovery of PAVIWATER T68 diluted 1:3 with water, proceeding with fresh ECOFONDO PLUS on fresh.

APPLICATION

Prepare the mixture of the 2 liquid components (A+B) by pouring the contents of part B into the container of part A; mix with a drill for about 2 minutes.

Add the pre-dosed hydraulic binder to the mixture (A+B) and mix with a mixer drill for about 1 minute. To disperse the product optimally, it is necessary to pour the powders little by little, continuing to stir with the drill.

Dilute by 15% by weight with fresh, clean water and apply in double replies with an american trowel, for a consumption of about 0.6-1.0 kg/m^2 for each shot.

Before proceeding with the coating required by the finishing cycle, wait 24 hours (at 25 °C and 50% R.H.) verifying complete drying with a hygrometer.

Warning: avoid preparing partial mixtures of the product in order not to incur accidental errors, which could lead to incomplete hardening.

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TECHNICAL SPECIFICATIONS

PRODUCT DATA	
Colour	Dark grey
Consumption: by trowel by trowel uploaded	 0.500-0.600 kg/m^2 of (A+B+C) 0,750 kg/m^2 of (A+B+C) + 0,075 kg/m^2 of QUARZO B2
Specific gravity (at 25 °C): mixture (A+B+C) mixture (A+B+C) loaded	 1.51 +/- 0.05 g/ml (diluted to 15%) 1,59 +/- 0,05 g/ml (diluted to 15%, with 10% QUARZO B2)
Viscosity (at 25°C): mixture (A+B+C) mixture (A+B+C) diluted mixture (A+B+C) loaded	 1,300,000 +/- 65,000 mPa·s (spindle 4, rpm 0.3) 105,000 +/- 5,000 mPa·s (diluted to 15%, spindle 4, rpm 3) 135,000 +/- 6,500 mPa·s (diluted to 15%, with 10% QUARZO B2, spindle 4, rpm 2)
Dry residue (A+B+C)	> 90% by weight
Flash point	None
Solvent for cleaning tools	Water
Storage	6 months for part C, 12 months for parts A and B, store in a dry place at a temperature between 5 °C and 35 °C
APPLICATION DATA AND TIMES	
Mixture ratio	by weight: A=100, B=50, C=100
Pot-life (50% R.H.)	at 10 °C > 3 hours at 25 °C 2 hours at 35 °C > 75 min
Dry to the touch (50% R.H.)	at 10 °C 20-24 hours at 25 °C 5-7 hours at 35 °C 4-6 hours
Coverage (50% R.H.)	at 25°C 24 to 36 hours
Insensitive to leaching (50% R.H.)	at 25 °C 7-8 hours

Environmental conditions of use	Temperatures between +10°C and +35°C and R.H. < 75%
PERFORMANCE TECHNICAL DATA	
Appearance	Dark grey, rough
CE marking (reg. n. 305/2011)	Complies with EN1504-2. Coating (C) Principles (PR) / (MC)
Pull Off Adhesion (EN 1542)	2,1 MPa
Abrasion resistance standard EN 5470-1	82 mg (CS10, 1kg, 1000 rpm)
Impact resistance (EN 6272-1)	> 24,5 N·m
Water vapour transmission - permeability (UNI EN ISO 7783-2)	Sd=9,070 m
Water permeability (EN 1062-2)	w < 0,002 kg/(h^{0,5}· m^2)
Reverse hydrostatic pressure resistance (UNI 8298-8)	250 kPa (72 h)
Coeff. Radon diffusion (ISO/DIS 11665-10)	D=(1,5 +/- 0,1)·10^{-12} m/s

Product for professional use, the buyer undertakes to follow the above warnings in the application of the purchased product and the instructions in the safety data sheet.