PAVIPLAST ANTIFIAMMA

COLOURED SELF-LEVELLING EPOXY FORMULATION (A+B+C)

DESCRIPTION

Three-component product based on epoxy resins, cycloaliphatic amine hardeners and apyrogenic filler.

PAVIPLAST ANTIFIAMMA can be applied by roller to create non-slip coatings and thick, waterproof and non-sparking coatings.

PAVIPLAST ANTIFIAMMA can be loaded with quartz and can be applied as a "self-leveling" or by trowel

USE

Formulated to produce resin coatings in reaction to fire class B_{FL-S1}.

Flooring of industries and theaters.

Flooring of warehouses and warehouses.

Flooring of laboratories and hospitals.

Flooring for shopping centers.

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

Concrete bottoms must be solid, dry (seasoned if newly built), leveled, absorbent, not polluted by oils, detergents, powders or other substances.

Evaluate the most convenient type of mechanical preparation (abrasive, shot peening or milling) and then apply a shot of FLUIDEPOX ANTIFIAMMA. Any holes and slight anomalies can be repaired with PAVIRAPID.

Tiled floors should be abrasive or shot peened until the surface is completely opaque, then apply two shots of FLUIDEPOX ANTIFIAMMA with subsequent dusting of QUARZO B1.

APPLICATION

At the time of application, combine the two components in a single container and mix carefully for 2 minutes, using appropriate equipment (propeller drill).

After obtaining a homogeneous mixture add the apyrogenic charge and mix carefully for two minutes.

Quickly use the entire contents of the container. When emptying the container avoid scraping the edges and the bottom, as there may be some product not perfectly blended.

The main application mode of PAVIPLAST ANTIFIAMMA is as "self-leveling". In this case it is necessary to spread the product with a 5 mm toothed trowel. Within 5 minutes pass the breaker roller with slow and regular movements to even out the surface. The consumption per 2.5 mm thickness and 3.3 kg/m^2 of (A+B+C). If applied “by trowel” it is necessary to spread the product with fan movements, taking care not to leave excess material.

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TECHNICAL SPECIFICATIONS

PRODUCT DATA	
Colour	As per price list or on request according to RAL folder (for minimum batches of 200 kg)
Specific gravity (at 25°C): mixture (A+B)	1,49 +/- 0,05 g/ml
Viscosity (at 25°C): mixture (A+B)	1.400 +/- 170 mPascal (spindle 2, rpm 30)
VOC ready to use (Legislative Decree 161/06)	< 200 g/l
Flash point	> 100 °C
Solvent for cleaning tools	UNI Solvent
Storage	12 months, store in a dry place at a temperature between 5 °C and 35 °C
APPLICATION DATA AND TIMING	
Mixture ratio	by weight: A=100, B=32, C=66
Pot-life (50% R.H.)	at 15 °C > 40 min at 25 °C 30 min at 35 °C > 20 min
Dry to the touch (50% R.H.)	at 15 °C 12-16 hours at 25 °C 5-7 hours at 35 °C 2-3 hours
Walkable (50% R.H.)	at 25 °C 12 hours
Coverage (50% R.H.)	at 25 °C 12 to 36 hours
Trafficable (50% R.H.)	at 25 °C 36 hours
Hardening in depth (50% R.H.)	at 25 °C 7 days
Environmental conditions of use	Temperatures between +15 °C and +35°C, R.H. < 50% and media humidity < 4% (*)
Coating maintenance	For cleaning operations use neutral detergents
TECHNICAL PERFORMANCE DATA	
Appearance	Gloss
Gloss (60°)	95
Abrasion resistance UNI 8298-9	70-80 mg (TABER Mola CS-17-1000 rpm - 1000 g weight)
Compressive strength (UNI 4279)	60 N/mm^2
Compression module	1,5 GPa
Bending strength (UNI 7219)	57 N/mm^2
Tensile strength (ASTM D 638)	38 N/mm^2
Hardness (ASTM D 2240)	78 Shore D
Adhesion (DIN ISO 4624)	>1,5 N/mm^2
Linear thermal expansion coefficient	20 x10^{-6} °C^{-1}
Chemical resistance	Good resistance against various aggressive (consult Sivit Technical Service)

(*) PAVIPLAST ANTIFIAMMA applied at substrate temperatures below 15 °C could stain in contact with water, or with water-based preparations, and form whitish spots. Such a defect in chemical resistance is caused by incomplete cross-linking.

Therefore, PAVIPLAST ANTIFIAMMA should be applied at a substrate temperature not lower than 15 °C and at least 3 °C higher than the condensation temperature.

WARNINGS

PAVIPLAST ANTIFIAMMA coatings exposed to sunlight may undergo fading or color variations with a turn towards yellow: this fact does not affect the performance of the coating in any way.

Between different production batches of the same color there may be slight differences: when it is possible to use material from the same batch.

For low temperature applications, the material can be heated to 25 °C for easy application and catalysis (viscosity decrease).

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.