RESIN FLOORING TECHNOLOGY
IMPERMEABLE COATING

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TECHNICAL DATA SHEET
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FLUIDEPOX FIRE RETARDANT

Low viscosity epoxy product (A+B+C)

EPOXY BINDERS

Description

3 component product based on epoxy resins, cyclo-aliphatic amine hardeners, additivated with fire retardant molecules.

It has very good consolidating properties when applied on concrete substrates.

The special chemical structure of the amine hardener gives the product a good reactivity even at low temperatures.

Uses

Ideal primer for concrete substrates to enable the adhesion of resin coatings.

Primer for glassfiber net at to make plastic coverings reinforced by glassfiber.

Consolidator for multi-layer systems.

Multi-layer to realize Fire Retardant Resin Flooring with Fire Class B_{FL-S1}

Substrate

The substrate must have a minimum resistance to compression of 25 N/mm^2 and to traction of 1,5 N/mm^2.

Preparation of the substrate

When the substrate is in concrete, check that no humidity from the ground-up is present. When newly done, respect the seasoning time.

The surface have to be solid, absorbent and not polluted by oils, surfactants, water, dust. Eventual not adhered parts have to be removed.

Choose the most convenient mechanical preparation: abrasion, shot-blasting or grinding.

Application

Mix the compounds A and B in one container and mix them carefully with a drill mixer for at least 2 minutes. After having obtained a homogenous mixture, add the Fire retardant additivation and mix with with a drill mixer for 2 minutes.

FLUIDEPOX FIRE RETARDANT can be applied in several ways:

- By smoothing with a trowel, pure or additivated with **QUARZO B0**
- By roll, pure or diluted with the 5 – 10% of ethylic alcohol or solvent UNI
- On substrates where humidity from the ground-up exists, apply on the still fresh **FLUIDEPOX FIRE RETARDANT** some QUARZO till saturation; apply then the transpirant coatings

The consumptions are depending on the type of application and on the type of substrate.

Technical Data

Colour		Yellowish
Density		1,30 +/- 0,05 g/ml
Viscosity at 25°C		1000 +/- 200 mPascal Spindle 2 rpm 60
Pot – life	at 30°C	> 20 minutes
	at 25°C	30 minutes
	at 10°C	> 60 minutes
Tack free time	at 30°C and 50% U.R.	2-3 hours
	at 25°C and 50% U.R.	5–7 hours
	at 10°C and 50% U.R.	12-16 hours
Mixture ratio in weight		A=100 B=50 C=75
Flash point		> 100°C
Walk-on time	at 25°C and 50% U.R.	12 hours
Over-coating time at 25°C and 50% U.R.		Min. 12 hours and max. 36
Transit-on time		36 hours
Hardening in depth		7 days
Application conditions (*)		Temperatures between 10°C and 30°C, U.R. < 60% and humidity of the substrate < 4%
Resistance to compression (UNI 4279)		58 N/mm^2
Resistance to flexion (UNI 7219)		50 N/mm^2
Resistance to traction (ASTM D638)		38 N/mm^2
Hardness (ASTM D2240)		78 Shore D
Solvent to clean the tools		Solvent UNI
Storage		12 months in a dry and protected place, at a temperature between 5°C and 35°C
Chemical resistance		Good chemical resistance to several different chemical products. Please refer to our Technical Service for more details.

(*) **FLUIDEPOX FIRE RETARDANT** have to be applied at a temperature from the substrate which has to be at least 3°C higher than the dew point.

WARNING:

For application at low temperatures you can warm the product up to 25°C to facilitate the application (lower viscosity).

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For the application of this product, the buyer engages to strictly follow what is indicated in this Technical Data Sheet and in the related Material Safety Data