RESIN FLOORING TECHNOLOGY
IMPERMEABLE COATING

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TECHNICAL DATA SHEET
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EPOXY BINDERS

FLUIDEPOX

Low viscosity epoxy product (A+B)

Description

2 component product based on epoxy resins in combination with cyclo-aliphatic amine hardeners.

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 and PAVIPLAST.

Anchorage primer for "epoxy screed".

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

Primer to consolidate reinforced concrete structures and filler for concrete defects.

Suitable for Car Park floor with high resistance for vehicular traffic.

Substrate

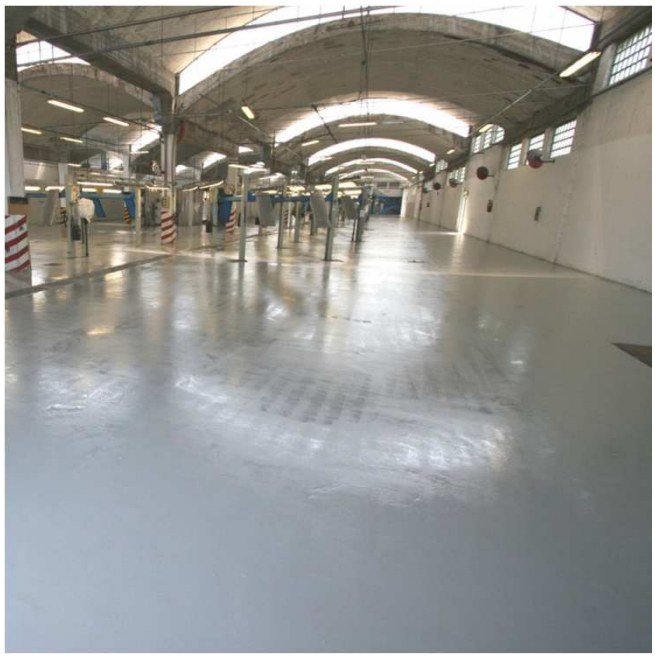
The substrate must have a minimum resistance to compression of 25 N/mm^2 and to traction of 1,5 N/mm^2.

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.

FLUIDEPOX 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** some QUARZO till saturation; apply then the transpirant coatings

The consumptions are depending on the type of application and on the type of substrate: please refer to our CYCLES to have a more detailed information.

Technical Data

Colour		Transparent
Density		1,10 +/- 0,05 g/ml
Solid content		100 % in weight 100% in volume
Viscosity at 25°C		470 +/- 100 mPascal Spindle 2 rpm 60
Viscosity (+5% Solvent UNI) at 25°C		270 +/- 50 mPascal (Spindle 1, rpm 20)
Viscosity (+10% Solvent UNI) at 25°C		175 +/- 40 mPascal (Spindle 1, rpm 30)
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
VOC		200 g/l
Flash point		> 100°C
Walk-on time	at 25°C and 50% U.R.	12 hours
Overcoating 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)		60 N/mm^2
Resistance to flexion (UNI 7219)		59 N/mm^2
Resistance to traction (ASTM D638)		40 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** 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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