

# PAVIPLAST FIRE RETARDANT

## Self-Levelling Epoxy Covering (A+B+C)

### Description

3 Component product based on epoxy resins in combination with cyclo aliphatic amine hardeners, additivated with fire retardant molecules.

**PAVIPLAST FIRE RETARDANT** can be applied by roll to create "anti-slip coatings" and "very thick coatings", not permeable and anti-blisters.

**PAVIPLAST FIRE RETARDANT** can be additivated with quartz and can be applied as "self-levelling" or as "smoothing system".

### Uses

Industrial and Parking Floors.

Floor coatings for storages and warehouses, labs and hospitals.

Places where a need exists to have a Fire Retardant Resin Flooring with Fire Class B<sub>FL-S1</sub>

### Substrate

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

### Preparation of the substrate

• Concrete substrates have to be solid, dry (seasoning time have to be respected when new), leveled, absorbent, not polluted by oils, cleaners, dust or any other substances.

Choose the most convenient mechanical preparation (abrasion, shot-blasting or grinding) then apply one layer of **FLUIDEPOX FIRE RETARDANT**. Eventual holes or anomalies of the substrate can be restored with **PAVIRAPID**.

• Floors with tiles have to be abraded or shot-blasted till the surface is totally matt, then apply one layer of **FLUIDEPOX FLEX** and then seed **QUARZO B2**.

### 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.



- The main application for **PAVIPLAST FIRE RETARDANT** is as "self-levelling". Apply it with a notched trowel of 5 mm. Within 5 minutes use also the spiked roller with slow and regular movements to uniform the surface.
- If applied as "smoothing system" apply it paying attention not to leave exceeding material on the sides.

### Technical Data

Colour	As available, or tailor-made (for batches of >200 liters)
Appearance	Gloss
Density	1,490 +/- 0,05 g/ml
Viscosity at 25°C	1400 +/- 170 mPascal (Spindle 2, rpm 30)
Pot – life	at 35°C > 20'
	at 25°C 30'
	at 15°C > 40'
Tack free time	at 35°C 2–3 hours
	at 25°C 5–7 hours
	at 15°C 12–16 hours
Ratio mixture in weight	A=100 B=32 C=66
Flash point	> 100°C
Walk-on time	12 hours (25°C–50% U.R.)
Over-coat time	Min. 12 hours and max. 36 (25°C – 50% U.R.)
Dry in depth	7 days (25°C – 50% U.R.)
Application conditions (*)	Temperatures between +15°C and +35°C and U.R. < 50% and humidity of the substrate <4%
Compression strength (UNI 4279)	60 N/mm <sup>2</sup>
Compression module	1,5 GPa
Flexural strength (UNI 7219)	57 N/mm <sup>2</sup>
Tensile Strength (ASTM D 638)	38 N/mm <sup>2</sup>
Hardness (ASTM D 2240)	78 Shore D
Solvent to clean the tools	Solvent UNI
Storage	12 months. Keep it in a dry place at a temperature between 5°C and 35°C
VOC following law n. 161/06	< 200 g/l
Abrasion resistance(TABER Grinder CS-17-1000 rounds – 1000 g of weight) UNI 8298-9	70-80 mg
Adhesion (DIN ISO 4624)	> 1,5 N/mm <sup>2</sup>
Chemical resistance	Good chemical resistance to several substance even when aggressive. Please refer to our Technical Assistance for information.
Coefficient of linear thermal expansion	20x10 <sup>-6</sup> °C <sup>-1</sup>
Maintenance of the coating	Neutral cleaners

(\*) **PAVIPLAST FIRE RESISANT**, when applied at temperatures of the substrate <15°C might form white marks when in contact with water or with waterborne products. Therefore, **PAVIPLAST FIRE RESISTANT** have to be applied on substrates with temperatures >15°C and of at least >3°C of the dew point.

#### WARNINGS:

The coverings of **PAVIPLAST FIRE RESISTANT**, when under direct sunlight, may change colour with tendency to yellow or become less bright; this does not compromise the performances of the coating in any way.

Few differences can be possible in between different batches of the same colour.

When possible, use products from the same batch.

For applications at low temperatures it is possible to warm the product up to 25°C to make the application easier (less viscosity).

*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*