

REPOX® 510

Solvent-Free Epoxy Coating for Floors

Description

Epoxy resin based, double component, self-levelling, solvent free floor coating material. It gives a smooth finish surface. It has high chemical resistance and mechanical strength.

Application Areas

- Indoor
- Horizontal applications
- Hygienic environments, such as hospitals and laboratories
- Wine, beverage (except concentrated fruit syrup), meat, fish and similar food industries
- Medicine, dyestuff, paper, accumulator and fertilizer industries
- Laundries, industrial kitchens and dining halls
- Places exposed to heavy pedestrian traffic, such as shopping malls, terminals
- Places exposed to heavy vehicle traffic such as factories, warehouses and parkings
- Data processing and control centers.

Advantages

- Does not contain solvent
- Resistant to chemicals, water and inorganic acids
- Has high mechanical and abrasion resistance
- Hygienic and suitable for sterilised conditions, does not require maintenance
- Can easily be cleaned thanks to its smooth surface
- Forms a jointless surfaces, has a hard glassy appearance.

Consumption

For 1 mm thickness 1.55 kg/m². (Varies depending on the absorption, roughness of the surfaces and the method of application.)

On self-levelling (A+B) coatings, the thickness must not be less than 1.25 mm. A second layer can be applied if required.

Packaging

In 30 kg tin cans sets (A+B)

Technical Properties

Components	A: Epoxy resin, B: Hardener
Color	Standard RAL colors (Except metallic, phosphorous colors and colors beginning with 4000)
Mixture Rate	A: 25.5 kg, B: 4.5 kg
Mixture Density	1.55 ± 0.05 kg/L (20°C TS EN ISO 2811-1) (A+B)
Compressive Strength	40 - 50 N/mm ² (DIN 53504 TS 1967) 7 days
Bond Strength by Pull-off	> 2 N/mm ² (EN 1504-2) 7 days
Tensile Elongation	> 10% (DIN 53504 TS 1967) 7 days
Abrasion Resistance (Taber)	< 100 mg, 1000 cycle (EN 1504-2)
Impact Resistance	Class III (EN 1504-2)
Capillary Absorption and Water Permeability	w < 0.1 kg/(m ² · h ^{0.5}) (EN 1062-3)

Solid Content (Mixture)	By weight 100%, by volume 100%
Hardness (Shore D)	75 ± 5 (ASTM D 2240, DIN 53505)
Pot Life	50 - 70 minutes (23°C, 200 g, DIN 16945)
Application Temperature	Between +10°C and +30°C
Dirt Pick-up Time	3 - 4 hours (23°C TS 4317)
Dry to Touch Time	10 - 12 hours (23°C TS 4317)
Time to Use	72 hours (23°C TS 4317)
Top Coat Time	Maximum 24 hours (23°C TS 4317)
Complete Curing Time	7 days (23°C TS 4317)

* Application instructions and technical data provided for the products are obtained in line with our experience and the tests are implemented according to international standards, under ambient temperatures of 23±2°C and ambient relative humidity conditions of 50%±5. Higher temperatures decrease while lower temperatures increase these durations.