EPOXY RESIN 51-FLOORING®

Two component Self Leveling Epoxy Flooring Resin

DESCRIPTION

EPOXY RESIN 51-FLOORING® is a two component, self-leveling, solvent free, epoxy based floor coating with excellent chemical resistance, high impact and abrasion resistance.

APPLICATIONS

- Industrial Floors
- Hospitals
- Food, Chemical and Pharmaceutical Industries
- Indoor Car Parks
- Retail Shopping Areas
- Hotels

FEATURES & BENEFITS

- Solvent free
- High impact resistance
- Excellent chemical resistance
- Excellent mechanical properties, high tensile and tear strength, abrasion resistance.
- Inhibits fungal and bacterial growth

APPLICATION

Concrete substrate conditions (standard):

- Hardness: R_{28} =15MPa
- Humidity: W < 5%
- Temperature: from 12 ºC - 35 ºC
- Relative humidity: < 85%

Clean the surface thoroughly, mechanical grinding is highly recommended. Remove oil, grease and wax contaminants. Cement laitance, loose particles, mould release agents, curing membranes must be removed. Fill surface irregularities with **EPOXY RESIN -21 T**.

MIXING:

Before mixing component A+B, mix component A thoroughly. Pour Component B into the Component A pail and mix using a low speed (300rpm) electric drill until mixture is completely homogenous. Pay particular attention to the wall lining and bottom of the pail.

PRIMING:

Prime all surfaces with **EPOXY RESIN- 21 CLEAR** at a consumption of 0.1 Kg/m^2. Optionally sprinkle dry quartz sand on wet primer and blow off excess sand. Allow 12 hours and apply **EPOXY RESIN 51-FLOORING.**

APPLICATION AS PAINT: Apply **EPOXY RESIN 51-FLOORING® A**+B without addition of quartz sand with a roller or spatula in two coats with 0.250-0.350 Kg/m^2 per coat (minimum total consumption 0.5 Kg/m^2). To make an anti-slip finish the final layer is broadcasted with silica sand or corundum.

APPLICATION AS SELF-LEVELING:

To the mixture of **EPOXY RESIN 51-FLOORING® A**+B Add 1:1 by weight dry silica sand 0.1-0.3 diameter. Pour the material on the floor and apply by 5mm notched trowel. Use a spiked roller to subsequently removed entrapped air.

PACKAGING

5Kg + 1Kg Pails

SHELF LIFE

EPOXY RESIN 51-FLOORING® can be kept for minimum 12 months in the original unopened pails at a temperature of 5 ºC - 25 ºC in dry places.

TECHNICAL SPECIFICATIONS OF EPOXY RESIN 51-FLOORING

Certified quality, environmental and occupational health & safety management systems:
ISO 9001/14001 & OHSAS 18001.

EPOXY RESIN 51- FLOORING®

The Liquid product:

PROPERTY	UNITS	METHOD	SPECIFICATION
-Pot Life (25°C) & 55% RH	Min.	Internal Method	40
-Mixing Ratio (Comp.A:Comp.B)			5:1
-Solids Content	%	Internal Method	99.8%
-Viscosity (initial mixing) **(BROOKFIELD)**	cP	ASTM D2196-86, at 25°C	1000-1500

The Coating:

PROPERTY	UNITS	METHOD	SPECIFICATION
-Hardness	Shore A	ASTM D2240 / DIN 53505 / ISO R868	>95
-Max. temperature short time (shock)	°C	-	150
- Light Traffic ((25°C) & 55% RH)	Hours	INTERNAL	24
- Heavy Traffic	Days	INTERNAL	7
- Adhesion to concrete	N/mm^2	ASTM D4541	>3
-Compression Strength	N/mm^2	DIN EN 196-1	>50
-Shrinkage	%	INTERNAL	0
-Resistance to acids, solvents, lubricants etc.	-	INTERNAL	Excellent