

Solvent Free Epoxy Resin Floor Coating For General Flooring and Wall. High Performance, Chemical Resistance & Protection against Corrosion

Thickness Applied: From 0.25mm to 0.50mm thick

Product Application: **Epo Bond FC 1** is medium-viscosity solvent free epoxy resin contains. Offers high hardness, chemical resistance and protection against corrosion. The coating has applied on floor or wall system for warehouses, car park decks, garages, shopping centers, precision industrials, hospitals, food processing industrials, electronic industrials, kitchen area and chemical plants other etc.

Advantage & Properties: The specific advantage offered by solvent free coating. Very good adhesion, the system recommended for concrete can also be applied on other concrete floors or walls, mineral substrates, as stones, bricks, fibre-glass, plaster, metal surface or even tiles and glass.

Ultraviolet Resistance: **Not reflection to eye and no yellowing after 100 hours.**

- ❖ Adhesion is always good on mineral substrates surfacing.
- ❖ Very good flow mechanical properties following optimal cure.
- ❖ Good in no dust from substrate coatings easy to clean, improved visibility.
- ❖ Excellent of chemical resistance, Good on hygienic floor and wall surfacing.
- ❖ Adhesion promoting primers between old with new concrete.
- ❖ Non-toxic, the coating have been cured applied on health floor.

The chemical composition of resin and hardener is such that it is approval for food contact applications in accordance with recommendations made by the Federal German Board of health (Bundesgesundheitsamt)

Mechanical Performance of Properties

Compressive Strength	25°C	[N/mm ²]	68 (± 3)
Tensile Strength	25°C	[N/mm ²]	23 (± 3)
Elongation at Break	25°C	[%]	2.10
Bond Strength	25°C	[N/mm ²]	< 3.20
Flexural Strength	25°C	[N/mm ²]	35 (± 3)
Traffic Cured	25°C	[hour]	> 24
Bonding cured	25°C	[h]	06
Viscosity	25°C	[mPas]	7500
Abrasion Resistance		[mg]	80
Modulus of Elasticity		[N/mm ²]	12000
Service Temperature		[°C]	- 05 °C until Max. 60 °C
Application Temperature		[°C]	Min. 10 °C until Max. 38 °C
Specific Gravity	25°C	[gm/cm ³]	1.20 [± 0.05]

New Reinforced Concrete & Steel**Surface Preparation**

Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitence, sealers, grease and other bond inhibiting contaminants.

Steel surface shall be sand-blasted to SS 2 Standard and de-rust to ST 2 Standard 50mm rich primer is recommended for priming.

Concrete must cured at least 28 days and have with minimum Compressive Strength of 20 N/mm². Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contamination's.

Epo Bond FC 1, it's easy to applied, there for using roller or brush on R. C. Surfacing & Steel Surfacing. Application must be made in three layer coats with, one layer coat pf **Epo Bond Primer (Refer to Coverage Chart)**

Existing Reinforced Concrete & Steel**Surface Preparation**

Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitence, sealers, grease and other bond inhibiting contaminants.

Steel surface shall be sand-blasted to SS 2 Standard and de-rust to ST 2 Standard 50mm rich primer is recommended for priming.

Concrete Floor Slab must cured at least 28 days and have with minimum Compressive Strength of 5,000 psi. Those cement slurry, plaster droppings, etc. must be remove, the surface of concrete free of oil, grease, and other loose particles and contamination's.

Epo Bond FC 1, it's easy to applied, therefor using roller or brush on R. C. Surfacing. Application must be made in two layer coats with, first layer coat coverage from 3 - 5 sq. meter per kg and second layer coat coverage from 4 - 8 sq. meter per kg.

Packing & Size:

10 kg per pack

Coverage:

3 - 5 sq. meter per kg for first coats
4 - 6 sq. meter per kg for second coats

Examples: Calculation Format for Floor/Wall Coating

Products	System	Require of Thickness	Require kg/m2	Unit Rate US\$/kg	Unit Price/m2
Concrete Floor with semi smooth					
Epo Cem WFC Primer	Water Base Primer	0.10mm	0.10		
Epo Bond FC 1	Solvent Free	0.25mm	0.30		
Total Thickness		0.25mm			
Cost of Material & Wages Per M2					

Mixing:

Supplied as three-component system. Mix materials with low speed drill and paddle for approximately Four minutes. Insure a thorough mix. Never mix more material than can be used in thirty (30) minutes. Do not apply Epoxy when ambient or surface temperatures are below 50 °F

Available of Color

Grey, Beige, Green, Blue, Cotta Red & Yellow

Storage

12 months from date of manufacture in original sealed container stored undercover 25 °C, at ambient temperature away from heat, and dry conditions. For clearing equipment, use special solvent liquid.

Test result from below types of chemicals, based on 1 layer primer "Epo Bond Primer" with 3 layers coat of "Epo Bond FC 1".

Temperature at: 25 °C
Thickness at: 0.55mm (0.66 kg/m²)
Recommended: A Excellent, Not Effected, B Excellent, Slightly Effected, C Excellent, Effected

Name of Chemical Resistant Test Chart	01 month	06 months	1 year
Nitric Acid 10%	A	A	A
Ethyl Alcohol	A	B	B
Toluene	C	C	C
Petrol	A	A	B
Caustic Soda 30%	A	A	A
Acetic Acid 5%	A	B	C
Sulphuric Acid 20%	A	A	A
Sewage Sludge	A	A	A
Salt Water	A	A	A
Ammonia Solution 15%	A	A	A
Phosphoric Acid 10%	A	A	A
Bleach 15% Cl ₂	A	A	B
Sea Water 100% (High ph)	A	A	A
Fuel Oil	A	A	A
Oxalic Acid 10%	A	A	A

Handling Precautions

Mandatory and recommended industrial hygiene procedures should be followed whenever our products are being handled and processed. For additional information please consult the corresponding product safety data sheets and the brochure "Hygienic Precautions for Handling Plastic Products"

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