

Solvent Free Epoxy Resin Self Leveling Floor, for Chemical Resistant, on Industrial & Building Flooring System # Medium Duty Floor**Thickness Applied: From 2mm to 5mm**

General & Properties Solvent-free epoxy resin based, reactive dilute containing, low viscosity bisphenol - A based definitional epoxy resin. Although **Epo Bond SL 3** resin contains a reactive dilute, it has high reactivity, good chemical resistance and mechanical properties. Good processability due to low viscosity. Solvent-free epoxy based, Highly fluid, phenol-free, modified cycloaliphatic polyamine hardener, low viscosity, easy processing, high reactivity, short curing times, good curing properties even at low temperatures (as of + 5°C) and high humidities. Good mechanical resistance (high hardness and flexibility values). Good resistance to aqueous solutions of alkalis, salts and inorganic acids, aliphatic and aromatic hydrocarbons. Good color stability.

Applications When used in combination with polyamines, polyamidoamines or their adducts, **Epo Bond SL 3** resin is suitable for the formulation of solvent-free epoxy floor toppings and screeds, etc flooring system. In combination with liquid self-leveling epoxy hardener.

Used Area Application Breweries, Commercial Kitchens, Battery Manufacturers, Dairy Industries, Engineering Workshops, Food & Drink Industries, Electronic Industries, Palm Oil Industries, Plating Industries, Rubber Industries, Pharmacy Industries, Housing Flooring, etc.

Advantage & Properties The specific advantage offered by Solvent Free Coating. Very good adhesion, even on damp or not fully cured concrete, the system recommended for concrete can also be applied on other mineral substrates, as stones, bricks, fiber-glass, plaster, metal surface or even tiles and glass.

Mechanical Performance of Properties

Compressive Strength	25°C	[N/mm ²]	85 (± 3)
Tensile Strength	25°C	[N/mm ²]	27 (± 3)
Elongation at Break	25°C	[%]	2
Bond Strength	25°C	[N/mm ²]	< 2.50
Flexural Strength	25°C	[N/mm ²]	35 (± 3)
Traffic Cured	25°C	[hour]	48
Bonding cured	25°C	[hour]	12
Viscosity	25°C	[mPas]	1,100
Abrasion Resistance		[mg]	105
Modulus of Elasticity		[N/mm ²]	9200
Coeff. of Linear Expansion			5 x 10⁻⁵ K⁻¹
Service Temperature	[°C]	- 05 °C	until Max. 60 °C
Application Temperature	[°C]	Min. 10 °C	until Max. 38 °C

Ultraviolet Resistance:	<u>Not reflection to eye and no yellowing after 100 hours.</u>	
	❖	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.
Preparation	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.	
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	
Method of Mixing	Part A	Epo Bond SL 3 Resin pours into pail and mixing with Filler sand.
	Part C	Filler sand with use the mixer. After mix for 7 – 10 minutes, add
	Part B	Epo Bond SL 3 Hardener mixing for approx. 3 – 5 minutes.
Method of Application	Surface to be repaired or sealed must be clean and sound. Concrete must be free of dust, laitance, 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.	
	New concrete shall be at least of aged 28 days before coating. Old concrete surface must be cleaned of dirt, dust or other contamination with a thorough floor scrubbing.	
	Apply first layer of primer and sprinkled silica sand with size of 0.5 – 0.8 mm onto the wet primer resin surface. After primer coat has been cured, that excess sand is removed. Apply Epo Bond SL 3 , by steel trowel and screeds exhibit a very smooth finish, can be kept in spotless hygienic condition and are of attractive appearance. Screed thickness usually varies from 2 – 5 mm thick.	
Thickness	From 2mm until 5mm thick, depending of base structure strength	
Coverage	2mm thick,	2.80 until 3.40 kg/m ²
	3mm thick,	4.20 until 4.80 kg/m ²
	5mm thick,	6.40 until 7.40 kg/m ²
Estimating Data	Applied of Primer	0.60 to 0.80 kg/m ²
	Applied of 0.50-0.80mm Ø Sand	1.00 to 1.20 kg/m ²
Packing	25 kg / pack	
Available of Color	Grey, Beige, Green, Blue, Cotta Red & Yellow	



“Epo Bond SL 3” install at Hotel Toilet/Bath Room Floors

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.

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”

The General Term & Conditions

All recommendations for use of our product, whether given by us in writing, verbally, or to be implied from the results of tests carried out by us are based on the current state of our knowledge. Notwithstanding any such recommendations the Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for this intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility therefor. The Buyer shall ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with and subject to our general conditions of supply.

The above mentioned details Specified key data are individually checked throughout, guarantee, and included in the certificates of Analysis (CoAs). & Typical key data are spot checked, the value are typical for the product and are indicated for information only. The values are not guaranteed or included in the CoAs.

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