

SEALBOND EFC-100

EPOXY FLOORING COMPOUND (100% SOLIDS)

Product Description

SEALBOND EPOXY FLOORING COMPOUND (EFC-100) is a 100% solid two-component Epoxy self-leveling compound formulated from high-grade resins and curing agents specially for flooring application. It is lead-free and non-toxic when fully cured. It hardens to a highly exceptional abrasion resistant coating, with high bond strength on properly prepared substrates such as concrete and steel.

SEALBOND EFC-100 is water-impermeable and has excellent resistance to oil, solvents, alkalis and most dilute acids.

Features

- Low Odor
- Low VOC
- Heavy Duty High performance coating
- Excellent Abrasion resistance
- Solvent Free System
- Can be applied at 3mm thick Epoxy Mortar when mixed with aggregates

Application areas

- Ideal for floor protections of new and existing flooring of food processing plants, chemicals and pharmaceutical factories, sugar and oil refineries.
- Recommended for installation of anti-skid coatings indoor.
- For patching of deteriorated flooring.
- High performance coating system.

Processing Data

Mix Ratio (by volume)	2 Part A: 1 Part B	
Gel Time at 30 °C	4-6 hours	
Coating Interval	Min	3 hours
	Max	8 hours
Full Cured	7 days	
Pot Life	20 - 30 minutes	
Shelf Life	12 months at room temperature	

Technical / Performance Data

Colors	Available in variety of shades	
Compressive Strength	74.4 N/mm ² ASTM D695	
Flexural Strength	110.5 N/mm ² ASTM D638	
Tensile Strength	19.3 N/mm ² ASTM D790	
Abrasion Resistance	0.05 g/1000cycles ASTM D4060	
Hardness	Shore 82 D ASTM D2240	
Viscosity	Part A	6,000 cps
	Part B	25,000 cps
Temperature Resistance	60°C to 100°C (fully cured at 24 days)	
Electrical Conductivity	NIL	
Chemical Resistance	ASTM D1308	
Diesel	No change	
Petroleum/Gasoline		
Fuel Oil		
Kerosene		
Brake Fluid		
Ethanol		
Methanol	Slight change in gloss	
Grease		
Hydraulic Oil		
Engine Oil		
VOC	77.1 g/L	
Solid by Volume	100%	

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Procedure & Guidelines

SURFACE PREPARATION

GENERAL

All surfaces must be thoroughly cleaned to remove dirt, grease, mill scale, loose rust, chalk, and any other contaminants that can reduce adhesion.

CONCRETE / MASONRY

Cure for at least 28 days before application. Remove loose or excess mortar, efflorescence, laitance and concrete form release compounds that reduce adhesion. Etch or abrasive blast polished or glazed concrete before use on floors.

METAL

Sandblasting is recommended to remove rust and mill scale. Use commercial blast to SSPC-SP6 for mild exposures and near-white blast SSPC-SP10 for severe exposures. Where blasting is not possible, thorough scraping and wire brushing may be substituted at some possible sacrifice in performance.

SPECIAL INFORMATION

Do not apply if material, substrate or ambient temperature is below 50°F. Yellowing may occur if exposed to temperatures exceeding 200°F. Oldcoatings should be tested for lifting before applying SEALBOND EPC-100 (PRIMER COAT). Exterior exposure causes color change, gloss loss and chalking, however, this does not affect protective performance properties. Level off uneven surfaces using SEALBOND EPOXY PUTTY.

MIXING

Thoroughly stir each component. Mix two (2) parts by volume of component A to one (1) part of component B. Mix only enough quantities that can be used within the pot-life of the mixture.

NOTES

All high gloss surfaces can be slippery. All epoxy coatings will chalk and fade if applied to exposed areas affected with direct sunlight.

Please contact Sealbond Technical Personnel regarding exposed coating applications.

SEALBOND EFC-100 SYSTEM APPLICATION

PRIMER

Apply one full coat (as primer only) SEALBOND EPC-100 using brush / roller to achieve a continuous and even coverage. Ensure priming coats are kept clean and free from dust, water, condensation. Please refer to SEALBOND EPC-100 Epoxy Primer Clear TDS.

COATING APPLICATION (2 COATS RECOMMENDED)

Sealbond EFC-100 can be applied by smooth/notched blade squeegee (preferred) or rolled. The use of spike roller is recommended 8-10 minutes after application to help in the removal of air entrapment.

SQUEEGEE APPLICATION – Apply as evenly as possible working from left to right then vice versa. After ten minutes, roll with a spike roller to remove excess air bubbles. Do not mix less than batch container quantities.

ROLLER APPLICATION – Using a quality phenolic core cover between 3/8" and 1/2" nap size, gently spread the ribbon of poured material by lightly working the material back and forth until even. Avoid overworking material; allow product to flow out and self-level. Avoid working back into previously applied epoxy, specifically after 10 minutes duration or color variation may occur in the lapped area. Do not mix less than full batch/container quantities.

MORTAR SYSTEM

Use SEALBOND EPC-100 as primer, follow standard mixing procedure. Using SEALBOND EFC-100 epoxy mortar system, mix each component separately. Gradually add High strength Silica Sand as preferred material for aggregates then properly mix into Component A (resin). Then add component B (hardener) and thoroughly mix the mixture. Apply EPOXY MORTAR EFC-100 onto floor with primed surface using notched trowel to evenly spread and fill the entire floors until reached the desired / recommended thickness of mortar flooring. Allow tack time free of approximately 3 - 4 hours prior application of coating system of SEALBOND EFC-100. Curing time is approximately 6-8 hours for foot traffic and fully cure at 7 days before loading heavy traffic pressure.

(Refer to Method Statement for detailed application).

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Theoretical Coverage

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Flooring Compound/Coating	12-15m ²
Flooring Compound with broadcast (Silica Sand)	6-8m ²
Thick Coating – Self Leveling ~500 microns DFT	6-8m ²
Epoxy Mortar Flooring with 1.5mm thickness (flowable type) Add 3kgs of Silica Sand: 1 gallon EFC-100	1.5-1.8m ²
Epoxy Mortar Flooring with 3mm thickness (flowable type) Add 3kgs of Silica Sand: 1 gallon EFC-100	0.50m ²

Product is manufactured based on International Environmental Regulations

SEALBOND EFC-100 is a green revolution product.



Health & Safety

Please wear rubber or plastic gloves to avoid contact with skin. Please refer to MSDS for other safety information.

Product is for Professional use only.

Storage / Packaging

Sealbond EFC-100 is available in gallon and pail set.

This product must be stored dry, protected from sun and rain.

Product Limitation

Product should not be applied directly to the substrate that shows any hydrostatic pressure problems that may later cause disbonding.

Additional Information - Disclaimer

The information and in particular, recommendations relating to the application and end-use of Sealbond products, are given in good faith based on Sealbond's best knowledge and specialty on construction chemical formulations. Products are properly stored and handled in accordance with Sealbond's endorsements. Hence, subject to the care and method of application, deviations (from published values) in performance may occur. In practice, to different materials used, as well as varying working conditions and environments beyond our control Sealbond Chemical Industries Inc. strictly recommend carrying out intensive trials to test the suitability of the product with regards to the required processes and applications. Therefore, any liability for such recommendations or any oral/verbal advice is expressly excluded unless we have acted wilfully or by gross negligence. Sealbond Chemicals Industries Inc. is not liable for installation or faulty installation. It is always the responsibility of the installer/applicator/purchaser to guarantee and certify the installation of materials.

All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the Product Data Sheet for the product awareness, copies of which will be supplied on request and is free of charge.



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