

SEALBOND EFC-80

EPOXY FLOORING SELF-LEVELING

Product Description

SEALBOND EPOXY FLOORING SELFLEVELING (EFC-80) is a two-component epoxy, formulated from carefully selected, highest grade, epoxy resin and curing agents, manufactured under strict quality control standards. It cures to a hard coating surface that is abrasion resistant. It has an excellent adhesion on properly prepared substrates, such as concrete and steel. SEALBOND EFC-80 is water-impermeable and has excellent resistance to oil, solvents, alkalis and most dilute acids.

Features

- As a long lasting multi – purpose floor coating solution.
- Available in variety of colors
- Ease of application
- Low solvents content
- Low VOC
- Extremely high strength coating

Application areas

- Ideal for floor protection of new and existing flooring of food processing plants, chemicals and pharmaceutical factories, sugar and oil refineries.
- For patching of deteriorated flooring.
- Car parks, Warehouses and applications where abrasion, compressive strength are required.

Processing Data

Mix Ratio (by volume)	4 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 colors
Compressive Strength (Solid Coat)	6,000psi – 8,000psi (ASTM D695)
Flexural Strength	12,000psi – 16,000psi (ASTM D790)
Tensile Strength	2,200psi – 3,000 psi (ASTM D638)
Abrasion Resistance	Excellent (Heavy Traffic Application)
Hardness	Shore 88-95 D (ASTM D2240)
Chemical Resistance	Excellent to oil, solvent, alkalis and dilute acids
Temperature Resistance	60°C to 100°C (fully cured at 24 hours)
Water Permeability	Impermeable
Viscosity at 25°C	6,000 cups(resin); 25,000 cps (hardener)
Electrical Conductivity	NIL
Adhesive Shear Strength	850 psi (ASTM C-90)
VOC	70.3 g/L
Solid by Volume	80%
Thickness	500microns DFT Required

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.

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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. Old coatings 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.

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-80 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 full/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.

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.

Theoretical Coverage

SEALBOND EFC-80

One Coating System	18-20m ²
Two Coating System	8-10m ²
Self – Leveling (solid coat at 20 mils)	6-8m ²

Product is manufactured based on International Environmental Regulations

SEALBOND EFC-80 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-80 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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