

SEALBOND EPC-100

EPOXY PRIMER CLEAR (100% SOLIDS)

Product Description

SEALBOND EPC-100 is a 100% solids, two component epoxy primer formulated from high-grade resins and curing agents specially manufactured for waterproofing & flooring application. It hardens to an abrasive resistant coating, with high adhesive strength on properly prepared substrates such as concrete, wood and steel.

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

Features

- Use as a general purpose epoxy primer according to painting specifications
- Use as a heavy duty primer for various epoxy top coat specifications
- Use as a primer for waterproofing application that requires traffic resistance
- Can be applied on concrete & steel substrate

Application areas

- Highly recommended primer for high performance flooring systems.
- Ideal for floor topping of new concrete and existing flooring of food processing plants, chemical and pharmaceutical factories, sugar and oil refineries, highways and other industrial business establishments.
- Recommended for installation of anti-skid coatings both indoor.
- For patching of deteriorated flooring

Processing Data

Mix Ratio (by volume)	2 Part Resin: 1 Part Hardener	
Gel Time at 30 °C	3-4 hours	
Coating Interval	Min	3 hours
	Max	12 hours
Full Cured	24 hours	
Rain Stability Time	4 hours	
Pot Life	20 - 30 minutes	
Shelf Life	1 year at room temperature	

Technical / Performance Data

Colors	Clear
Tensile Strength	50-60 N/mm ² ASTM D412
Compressive Strength (Solid Coat)	12,000 psi (Solid Coat); 8,000 psi (With Fillers) ASTM D695
Adhesion with concrete and wood	4-5 N/mm ²
Solid by Volume	100%
Light-Heavy Pedestrian Traffic Time	4 hours cure time Conditions: 20°C, 50% R.H
Viscosity	6,000 cps (resin); 15,000 (hardener)
Chemical Resistance	Excellent to oil, alkalis and dilute acids
VOC	15.7 g/L USEPA Method 24
Thickness	100 microns 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.

PREVIOUSLY PAINTED SURFACES

Scrape loose, scaly, peeling paint and sand the edges smooth. If the paint is glossy, sand to dull the surface. Remove any rust and scale from ferrous metal. If mildew is present, remove completely by sterilizing the surface with mildew remover and detergent. Rinse well and allow to dry before painting.

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. 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.

SEALBOND EPC-100

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.

APPLICATION

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. If two (2) coats are required as per painting specification, allow 3-4 hours drying time to recoat.

EPOXY MORTAR SYSTEM

Use SEALBOND EPC-100 as primer, follow standard mixing procedure. Using SEALBOND EPC-100 epoxy mortar system, mix each component separately. Gradually add High strength Silica Sand as preferred material for aggregates into Component A (resin). Then add component B (hardener) and thoroughly mix the mixture. Apply EPOXY MORTAR EPC-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 EPOXY COATING SYSTEM. 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).

Theoretical Coverage

As Primer Coat per gallon:

18-20 m² at 75-100 µm DFT per gallon

As Mortar topping with aggregates:

1.8 – 2.0 m² at 3mm DFT

0.9 – 1.2 m² at 6mm DFT

Product is manufactured based on International Environmental Regulations

SEALBOND EPC-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 EPC-100 is available in gallon kit 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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JULY 2021

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