

SEALBOND ETL-100

EPOXY TANK LINING (100% SOLIDS) SOLVENT FREE

Product Description

SEALBOND EPOXY TANK LINING (ETL-100) is a 100% solids two-component epoxy compound formulated from high-grade epoxy resins and polyamine curing agents especially for storage tanks. It is lead-free, food-grade and non-toxic when fully cured. It hardens to an abrasive resistance coating with excellent adhesive strength on properly prepared substrates such as concrete and steel.

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

Features

- Heavy duty and high performance coating
- Excellent in Chemical resistance (solvent, alkalis, acids & hydro chemicals)
- Solvent Free System
- Food Grade
- Low Odour
- Low VOC
- Specially formulated for portable water application (Laboratory tested by Sentrotek & BFAD)
- Sealbond ETL-100 Epoxy Tank Lining complies with the following international testing standards:
 - TUV SS (Singapore Standard):375 of 2015 for use of product in contact with water intended for human consumption.
 - TUV SS (Singapore Standard) Cathodic Disbonding of
 - Pipeline Coating Complies with Water Regulations Advisory Scheme (WRAS)
 - TUV SS (Singapore Standard) CDPH/EHLB/Standard Method Version 1.2 (LEED 4)

Application areas

- Designed for coating the interior surfaces of concrete, steel and wooden tanks such as those used for storing potable water, chemicals (except high concentration acids), grains, powders and other liquids.
- Applied as a solid coating or may be reinforced with fiberglass as in the case of concrete structures that are not integrally waterproofed.

Processing Data

Mix Ratio (by volume)	2 Resin: 1 Hardener	
Gel Time at 30 °C	30 minutes	
Coating Interval	Min	4-6 hours
	Max	10 - 12 hours
Full Cured	7 days	
Pot Life	20 - 30 minutes	
Shelf Life	12 months at room temperature	

Technical / Performance Data

Solid by Volume	100%
Colors	White, other colors available upon request
Hardness	Shore A 85 ASTM D 2240
Adhesion with concrete	1.8 MPa
Adhesive Shear Strength	900 psi (ASTM C190)
Tensile Strength	4,000 – 6,000 psi (28.70 MPa) ASTM D 638
Flexural Strength	8,000 – 10,000 psi (86.0 MPa) ASTM D790
Compressive Strength (solid coat)	8,000 psi ASTM D695
Solvents	Zero (0)
Permeability	Impremeable
Flash Point	93°C
Density	1.30 kg/ L
Chemical Resistance	Excellent to oil, solvents, aklalis and dilute acid (ASTM C581) Excellent to oil, solvents, aklalis and dilute acid (ASTM D1308)
Weight Loss	TM - PPT - 009
Abrasion Resistance	15.2 mg
Electrical Conductivity	NIL
VOC	94.3 g/L (SGS VOC Tested)
No. of coats required	Two (2) coats
Recommended DFT	410 µm

Procedure & Guidelines

SURFACE PREPARATION

GENERAL

All surfaces must be thoroughly cleaned to remove dirt, grease, stain rust, chalk, and any other contaminants that can reduce adhesion through SSPC-SP1 solvent cleaning.

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SEALBOND ETL-100

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.

CISTERN TANK

Surface preparation with accordance to SSPC-SP-13 / NACE No. 6. Product has self-priming capabilities & can directly bond to SEALPROOF CW cementitious crystallization waterproofing. However, the use of primer is recommended, use SEALBOND EPC-100 Epoxy Primer Clear 100% Solids (Solvent free).

STEEL

The surface shall be abrasively clean with accordance to SSPC-SP-3, SSPC-SP-10 / NACE No.2, SSPC-SP-11.

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 ETL-100. Exterior exposure causes color change, gloss loss and chalking, however, this does not affect protective performance properties.

MIXING

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

APPLICATION

Apply (1) one coat of Sealbond EPC 100 Epoxy Primer Clear 100% Solids as primer for substrate. (Please see Technical Data Sheet of Sealbond EPC 100).

SEALBOND ETL-100 is supplied in two (2) component packaging. Mix well component A and B in container before application using spiral agitator. The system can be applied using phenolic core roller, medium brush, conventional spray or airless spray. (Please see Method Statement of Sealbond ETL-100 for detailed application). Apply (2) coats of SEALBOND ETL-100 to achieve recommended *Dry Film Thickness (DFT)*. Please refer coating interval in processing data on page 1.

Note:

Do not add thinner or any solvent to the product. For close tanks, ensure proper ventilation / filled tank with water after product full cured to avoid coating peeling off.

Theoretical Coverage

Recommended coverage rate

15-19m² /gallon kit @ 200 µm DFT / coat

Two (2) multi-pass spray coats will produce recommended for immersion service.

Product is manufactured based on International Environmental Regulations

SEALBOND ETL-100 is a green revolution product in waterproofing solutions.



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 ETL-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.



A-2 Araneta St. Cor. Gen. Natividad St.
Bgy. Ibayo, Tipas Taguig City, Philippines

PH: (632) 8881-8813 • (632) 8883-1477 • (632) 8845-0205
• (632) 8843-4498 • (632) 8845-0137
www.sealbondchemicals.com



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