

TECHNICAL DATASHEET

ASCOPOXY TL 100

Two Part, Food Grade Certified, Hygienic & High Performance Epoxy Tank Lining Coating



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PRODUCT INTRODUCTION

ASCOPOXY TL 100 is a two-component epoxy coating, formulated from high-grade epoxy resin and modified polyamide curing agents, especially for tank linings in contact with food, edible oils, water or alcoholic beverages containing up to 12% alcohol. It is lead-free, food-grade and non-toxic when fully cured. It gets hard to an abrasive resistance coating with excellent adhesive strength on substrates like concrete and steel. **ASCOPOXY TL 100** is water - impermeable & has excellent resistance to oil, solvents, alkalis and most dilute acids.

KEY FEATURES

1. 2 parts thus very easy to apply and clean.
2. Aesthetically attractive glossy coating and easy to clean; hygienic and dust free.
3. Low odour and low VOC.
4. Suitable for water proofing of properly prepared steel, composites and concrete substrates.
5. Heavy duty and high performance coating.
6. Excellent corrosion and chemical resistance (solvents, alkalis, acids, hydro carbon chemicals).
7. Solvent free system and recommended for application in closed areas like dairy and brewery.
8. Specifically formulated for coating of containers and pipes in contact with potable water applications and uniform in colour.

RECOMMENDED APPLICATIONS

1. **ASCOPOXY TL 100** is 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) & other liquids.
2. To be used as a coating for pipes.
3. It complies to BS 6920-1:2000 for contact with potable water and Federal Drug Authority, USA, FDA Title 21, Part 175.300

TECHNICAL PROPERTIES (Complies to BS 6920-1: 2000)

Appearance	Part A - Colored Resin Part B - Liquid Hardener
Colour	White and Blue
Pot Life	40 ± 5 minutes
Mixing Ratio	4.25 : 0.75 (Part A : Part B)
Mixed Density	1.45 Kg/ l
Permeability	Impermeable
Dry Film Thickness	150 ± 15 microns
Wet Film Thickness	160 ± 15 microns
Compressive Strength	≥ 55.0 N/mm ²
Shear Bonding Strength	≥ 5 N/mm ²
Recommended Coats	Two (2) coats

The values obtained are from laboratory testing conditions and at 27 ± 2 °C . On site tests may show slight variation due to site conditions and / or methods of testing. Follow company TDS to obtain best results.

APPLICATION METHOD

1. Surface Preparation

The substrate should be clean, dry, sound and free from dirt, oil, grease, coatings, etc. Weak concrete should be removed and surface defects such as blowholes and voids needs to be fully exposed and treated properly before application of **ASCOPOXY TL 100**. New concrete must be allowed to cure for 28 days whereas cement render and cement screeds shall be allowed to cure for 7 days before application. Optimum adhesion, corrosion protection, heat resistance and chemical resistance properties are achieved with recommended surface preparation.

2. Mixing

Part A (resin paste) and part B (thick liquid hardener) are packed in two separate containers, in predetermined mixing proportion. The quantity of component B is added into component A by stirring method. Mixing of both the components to be done for 5 minutes, using a slow speed drill mixer (200 to 300 rpm). It is necessary to mix thoroughly covering the sides and bottom of container for achieving uniform dispersion of the hardener. Please do not over-mix or mix at high speed because it will cause trapping of air inside.

3. Precautions

- i. Do not apply on dusty substrates.
- ii. Do not use on damp surfaces.
- iii. Do not dilute it with thinner, solvents or water.
- iv. Do not apply on surfaces subject to capillary action rising damp

4. Application Method

ASCOPOXY TL 100 can be applied by brush, roller brush, roller or spray.

Brush: Use a stiff nylon medium bristle brush

Roller: Use a 3/8" phenolic core roller

Spray: Conventional spray / Airless Spray

5. Curing

Optimum performance level is reached after 48 hours of curing.

6. Cleaning

Clean skin with soap and water. Tools and equipment should be cleaned with solvent thinners.

a) Health and Safety Guidelines

- i. Use personal protective equipment (PPE) to use **ASCOPOXY TL 100** for storage and application
- ii. If come in contact with eyes, immediately wash eyes with water and seek medical advice.
- iii. Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use. (Material Safety Data Sheets are available through our company's representative or from our ASCOLITE's website)

7. COVERAGE

45 - 50 ft² / 2 Coats / Kg

8. Packaging

ASCOPOXY TL 100 is available in 5Kg & 20Kg in pre-determined mixing proportion by weight. The container of component B is built in the container of component A.

9. Shelf Life

12 months from the date of production if stored in original, sealed packaging and in places protected from moisture, sun exposure and frost.

DISCLAIMER:

While the technical details and recommendations contained in this document and the related details given by the representatives of the company correspond to the best of our knowledge & experience, all the above information must in any case be considered as merely indicative and subject to confirmation. Users are recommended to conduct a product suitability test before it is used at full scale. In any case, the consumer alone is entirely liable for any consequences resulting from using the product. For the most up-to-date TDS, please visit our website at www.ascolite.in. Our company policy is one of ongoing R&D; therefore, we reserve the right to update this information without prior notice at any time. As the correct identification of the problems, the quality of other materials used, on-site environmental conditions and the workmanship on-site are factors beyond our control, there is no express or implied guarantee/warranty as to the results achieved. The company assumes no liability or consequential damage arising from the use of our products for unsatisfactory results. Site visits are not a supervisory responsibility wherever provided. Suggestions made either verbally or in writing by the company may be followed, modified or rejected by the owner, engineer or contractor, since they are solely responsible for carrying out procedures appropriate to a specific application.