

TECHNICAL DATASHEET

ASCOPOXY TL 100

Two Part, Food Grade, Hygienic and High Performance Solvent Free Epoxy Tank



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PRODUCT INTRODUCTION

ASCOPOXY TL 100 is a two-component epoxy coating formulated from high-grade epoxy resins & modified polyamide curing agents especially for tank linings in contact with food, edible oils, water or alcoholic beverages containing up to 12 % alcohol by volume. It is lead-free, food-grade & non-toxic when fully cured. It hardens to an abrasive resistance coating with excellent adhesive strength on properly prepared substrates such as concrete & steel. ASCOPOXY TL 100 is water-impermeable and 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 & high performance coating
6. Excellent Corrosion and Chemical Resistance (solvents, alkalis, acids and 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) and 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 ASTM D 695, ASTM C 190 & BS 6920-1: 2000)

Appearance	Part A - White Resin (4.25 Kg) Part B - Liquid Hardener (0.75 Kg)
Pot Life	35 ± 5 minutes
Mixed Density	1.31 Kg/l
Permeability	Impermeable
Dry Film Thickness	170 ± 10 microns per coat
Wet Film Thickness	190 ± 10 microns per coat
Compressive Strength	≥ 55.0 N/mm ²
Slant 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 must be clean, dry, sound and free of all contamination such as dirt, oil, grease, and coatings etc. which hinder an adhesion. Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed and treated properly before the application of ASCOPOXY TL 100. New concrete must be allowed to cure for 28 days and cement render and cement screeds must be allowed to cure for at least 7 days prior to the application of ASCOPOXY TL 100. 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 by weight. The whole quantity of component B is added into component A under stirring. Mixing of both the components should take place for approx. 5 minutes, using a slow speed drill mixer (200 to 300 rpm). It is important to mix thoroughly near the sides and bottom of the 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 or spray.

- i. Brush: Use a stiff nylon medium bristle brush
- ii. Roller: Use a 3/8" phenolic core roller
- iii. 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 plenty of 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)

8. Packaging

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

9. Shelf Life

11 months from the date of production if stored in original, unopened 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.