



TARALAC®

TARA PAINTS & CHEMICAL

(An ISO 9001:2015 Certified Company)



Product Data Sheet

SOLVENT FREE EPOXY FOR POTABLE WATER APPLICATION

PRODUCT CODE: 2801 - EPOXY FG RED (PART A & B)

General Description:

EPOXY TOP COAT PAINT is a, two components, **and high solid 100% epoxy coating**. System consists of an epoxy resin and polyamine hardener. It is specially formulated to give superior mechanical properties such as adhesion, abrasion resistant and excellent chemical resistance, damp surface adhesion, water immersion, sea water, Cathodic disbandment, ground waters over a broad PH range. It has high build cross linking density & Passes 2000 hrs salt spray test & can give 300-800 microns DFT. in single coat.

This is WRAS Approved Food Grade Epoxy Coating for internal coating of pipes, vessels and other equipments used for potable water. It conforms to BS 6920:2000 and AWWA C210.

Major Uses:

- Ideal for machine shops, heavy engineering plants, chemical process areas, passenger walkways in airports when an attractive appearance must be coupled with exceptional wear resistance and laboratories subjected to mild acids and spillages. Radial Gate and Hoist Mechanism at the dams.
- It is also widely used for commercial and industrial establishments, heavy-duty loading bays and storage. On floors such as breweries, textile mills, distilleries and other food processing, Tank linings and manufacturing industries.

Advantages:

Solvent free – low odor.
 High chemical resistance.
 Hard wearing.
 Easy to clean – seamless.
 Flexible and waterproof.

Available in wide range of color.
 Exceptional wear – resistance.
 Non – slip also Available
 Excellent abrasion resistant.

Characteristics and Physical Properties

Appearance	Smooth & Glossy
Mixing Ratio	3 : 1 by volume
Solid Content	100%
Specific Gravity	1.2 – 1.9
Pot Life @ 300C.	15 – 20 minutes.
Initial Hardness @300C	Surface Dry: 30-45 Minutes Touch Dry : 1-2 Hours Hard Dry : 3 - 4 Hours
Full Cure @30°C	7 Days
Hardness Shore D	85 min. ASTM 2240
Compressive Strength	80 N/mm ² ASTM C 579
Flexural Strength	28 N/mm ² ASTM C 580
Water Absorption	0.2%
Modulus of Elasticity	5500 N/mm ² ASTM C 580
Theoretical 2.0 sqm/ltr at 500 Microns DFT	
Taber Abrasion	0.76 - 1.0 Mil/1560 cycles ASTM D4060
Pull of Adhesion	>2000 psi ASTM D4541
Cathodic Disbondment	4 – 9 mm ASTM G8
Dielectric Strength	450 V/mil ASTM D149

Chemical Resistance Properties

Hydrochloric Acid -	Excellent
Sulphuric Acid, 20% -	Excellent.
Phosphoric Acid, 20% -	Excellent.
Lactic Acid, 20% -	Very Good.
Sodium hydroxide, 50% -	Excellent.
Water, de - ionized -	Unaffected
Sulfuric Acid, 14% -	Unaffected
Nitric Acid, 10% -	Unaffected
Acetic Acid, 30% -	Unaffected
Caustic Soda, 20% -	Unaffected
Petrol -	Unaffected
Toluene -	Stiffened
Xylene -	Unaffected
Styrene -	Unaffected
Hydraulic Fluid -	Unaffected
Alcohol -	Excellent.
Ketones -	Good.

Surface Preparation:

Remove all traces of oil, grease and other contaminants with suitable degreaser and detergent. Remove all rust and loose materials by power tool cleaning or by wire brushing. Metal Structures should be blast cleaned to a minimum Sa2½ profile in accordance with BS7079 part C3 / ISO 8503-1. All loose abrasive dust & debris must be blown clear or vacuum cleaner.

Steel surface do not required priming but should be coated within 4 hrs. of blast cleaning to prevent rash rusting.

Concrete surface should plaster with smooth finish, In case of rough finish epoxy putty is required to layer it smooth. The surface should be free from loose dust particle etc. The surface should dry for application. For concrete surface the following procedure is recommended: surface preparation of concrete tank/pipeline and application of single coat EPOXY TOP COAT PAINT.

Application Methodology

The Epoxy coat should be applied using suitable brush / roller so that overall thickness of approx. 300-800 microns is achieved. The range is given for the decision of Engineer in charge where the DFT minimum or maximum is required. Allow the coating to dry for at least 48 hours before ultimately exposing to fluid media.

Mix Base (part-A) well before use Pneumatic stirrer. To that add hardener (Part-B) supplied and mix it uniformly for 3-4 min before application. For best result, use a variable speed.

Plural feed Hot Airless Spray

- The material should be agitated to avoid uneven finishing in it. The component A should be heated to 65- 75^o C and Component B should be heated to 50- 60^o C.
- Apply EPOXY TOP COAT PAINT by plural feed airless spray gun to the required thickness on the substrate.
- The tip pressure typically 2500-4000 psi (the tip pressure should be adjusted to achieve good atomization of the spray).
- Tip size typically 28-40 Thou orifice.
- The coating repair should be done by brush application with the same material provided the mixing quantity of Component A and component B should be done as per requirement of the repairing job because of the lower pot life of the material. Mixing will be done in a drill type mixer. For repairing job, heating of individual component is not required.

Important Note:

- Avoid inhaling vapor. Do not use below 5^oC
- While applying the atmospheric moisture should be less than 90% or surface temperature is less than 3^oC.above the dew point. Do not apply in rain, fog or mist.
- While applying in food base industry the work should only be started after 7days of application.

Storage:

At least 1 year in unopened cans. The product should be stored dry area under shade. Keep container tightly closed.

Cleaning of Tools:

All tools should be cleaned with Wash Thinner or TARALAC Epoxy Thinner as soon as possible.

Physiological Hazards:

Keep Resin and Hardener away from eyes and skin contact. Good ventilation should be provided particularly in closed work areas. Keep uncured epoxy materials away from the mouth, food or drink, do not use empty tins to store food and do not empty cans into drains. Always wear gloves and safety materials when handling this product. Clean any splashes or smears from the skin immediately, using warm water and soap. Avoid inhaling vapor.

For further Information please contact:

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