

HYDROPOXY DWT

Solvent Free Epoxy Waterproofing for Potable Water Tanks

Description:

HYDROPOXY DWT is a two components, solvent free epoxy waterproofing and protective coating for concrete and steel surfaces. It is designed for lining and waterproofing potable water retaining structures and surfaces subject to contact with foodstuffs. The cured film coating is smooth, tough non-toxic and resistant to corrosion, chemical attack and abrasion. For application control, HYDROPOXY DWT is manufactured in blue and grey colors.

Uses:

HYDROPOXY DWT can be applied on concrete and steel surfaces and suitable for several applications including:

- Water proofing for potable reservoirs and tanks.
- Non-toxic chemical resistance coating in breweries, dairies and food processing plants.
- Secondary containment.
- General maintenance.

Advantages:

- Non-toxic. Ideal for food grade & hygienic facilities.
- Approved to be used for potable water and food stuff storage.
- Compatible with all substrates. Can be applied directly on to mild steel and concrete surfaces.
- Applied coat forms a smooth, glossy, easy to clean surface.
- Excellent chemical, corrosion and abrasion resistance.
- Does not contain any metallic particles.
- 100% solid. No VOC, no odor during application.
- Supplied in pre-measured quantities ready for site mixing and use.

Instructions for Use:

Surface Preparation:

All surfaces should be sound, clean, dry and free from loose material, efflorescence, laitance, curing compounds, dirt, oil and grease. Ensure that concrete surfaces are cured for at least 28 days.

Apply sand blasting or mechanical preparation means for the surface prior to application to ensure a proper mechanical grip for the surface. This ensures best adhesion of material.

All blowholes and imperfections should be filled with LAVAPOXY FINISH (two parts epoxy repair fairing coat), allow to harden and then sanded/ground back if required. For any cracks, fill static cracks with repair materials or apply injection materials for penetrating cracks to ensure structurally sound containment before apply of waterproofing liner membrane.

Apply a rich coat of primer ARMOPRIME EP100 (solvent free high performance epoxy primer) to the surface in a spread rate of 6-8 square meter per liter. This will ensure sealing of the surface and best results for material application.

Mixing:

HYDROPOXY DWT is supplied in two components kit. With a low-speed mixer (200-300 rpm) stir the contents of Part A (base) for a minute, then add the contents of Part B (hardener) and mix slowly for 2-3 minutes until a homogenous mix is reached. Leave the mixed material for a period of 2 minutes to relax and release entrapped air within the mix.

Application:

HYDROPOXY DWT can be applied over primed surfaces with a roller, trowel, brush or spray machine. It is recommended to apply two coats in case of roller or brush applications. Apply rich coat to the surface in a

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spread rate of 4 square meters /liter /coat, subsequent coats to be applied to the first coat with the same rate of application preferably in 90 degree direction. Minimum two coats are required, with a thickness of over 500 microns to achieve best results of the product.

HYDROPOXY DWT should not be applied on surfaces with a risk of rising dampness and should not be applied at temperature below 5°C. Be aware that all

water test should be run after 14 days of material application to allow the coating to fully cure. While applying the product in wet areas, it is recommended to pay extra attention to penetrations. An additional strip of product to be applied around penetrations such as pipes and conduits to ensure proper sealing.

For expansion joints in water tanks, fill the expansion joint with MEGASEAL PU1-a polyurethane sealant. For proper sealing, coat the inner edges of the expansion joint with HYDROPOXY DWT, then apply the polyurethane sealant.

It is recommended in water tanks to apply HYDROJOINT TAPE on the sealed expansion joints, around pipe through penetrations and to angles of the water tanks. The application of the tape will ensure a water tight body along with the formed membrane by applying HYDROPOXY DWT.

Standards:

- ASTM D2240, C579, C580, D4541
- BS 6920

Coverage:

HYDROPOXY DWT achieves coverage of 1 lit/square meter @ 1mm dry film thickness.

*Coverage rate is an approximate value, and subject to actual site conditions.

Packaging:

HYDROPOXY DWT is available in a set of 4 and 15 liter supplied in metal dual pack.

TECHNICAL PROPERTIES	
Color	Blue, grey (other colors upon request)
Appearance	Liquid coating
Mix Density	1.50 ± 0.03 kg/lit
Potlife @ 25°C	30 minutes
Application Temperature	+5°C to +40°C
Volume Solid	100%
Overcoating Time	16-24 hours
Full Cure	7 days
Adhesion to Concrete (ASTM 4541-02)	Greater than concrete cohesion
Chemical Resistance	Resistant to dilute acids, alkalis, solvents, oils

*Values indicated may vary depending on the environment and conditions of the material. Figures given are tested according to standard laboratory conditions.

Storage Conditions:

Store in original packing in dry conditions away from direct sunlight and in temperature controlled warehouse. Stored at +15°C to 25°C.

Shelf Life:

HYDORPOXY DWT can be utilized within 12 months of production date if stored in proper conditions in an unopened original packing.

Cleaning:

Clean tools with ARMOSOLVENT prior to product hardening. Hardened materials can only be removed mechanically.

Health and Safety:

Avoid contact with eyes and skin. Wear suitable protective clothing such as coveralls, goggles, dust mask and gloves. Use barrier cream. Ensure that there is adequate ventilation. Do not breathe vapour or spray mist.

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FIRST AID:

- Eyes: In the event of accidental splashes, flush with warm water and seek medical advice.
- Skin: Wash skin thoroughly with soap and water
- Inhalation: Remove to fresh air, keep patient rested
- Ingestion: Do not induce vomiting. Seek immediate medical attention.

For further safety information, please refer to HYDROPOXY DWT Material Safety Data Sheet.

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