

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 coat is smooth, tough no-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.

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.

After preparation, apply repair to all defected areas by applying LAVAREP range of products. For any cracks, fill static cracks with repair materials or apply injection materials for penetrating cracks to ensure structurally sound containment before apply of water proofing liner membrane.

Apply a rich coat of primer ARMOPRIME EP100 to the surface in a spread rate of 8 square meter per liter. This will ensure sealing of the surface and best results from 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 3-5 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 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

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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 membrane to be 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. 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:

HYDROPOXY DWT conforms to:

- ASTM D2240, ASTM C 501, C579, C580, 4561
- BS 6920

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.

Coverage:

HYDROPOXY DWT achieves coverage of 2 sq. m/liter @ 500 micron dry film thickness.

TECHNICAL PROPERTIES

Color	:	Standard Colors as requested & Grey
Appearance	:	Liquid Coating
Mix Density	:	1.58 kg/ Lt.
Pot life @ 25°C	:	40 minutes
Volume Solids	:	100%
Over coating time	:	24 hours
Initial cure @ 25°C	:	24 hours
Full Cure	:	7 days
Adhesion to concrete	:	greater than concrete cohesion
Chemical Resistance	:	Resistant to dilute acids, alkalis, solvents, oils.
Application Temp.	:	+5°C to +40°C

Packaging:

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

Shelf Life:

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

Cleaning:

Clean tools with ARMOSOLVENT prior to product hardening.

Health and Safety:

- Use the product with caution. Use goggles and gloves during application.
- Do not breathe vapor of products. Use only in well ventilated areas
- Avoid contact with eyes or skin.
- In case of skin contact clean immediately with a resin removing cream, followed by soap and water.
- In case of contact with eyes, use clean water to wash the eyes and seek doctor medical attention immediately.

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This technical data sheet is not considered as local building codes. It shall be used as general reference for the product, based on our current knowledge and experience. However the company do not accept any liability arising from the use of its products as it has no direct control on how and where the product is applied.

