

TOP Protect DW

Non-toxic solvent protective epoxy resin coating for potable water

PRODUCT DESCRIPTION

TOP Protect DW is a solvent free epoxy resin system, comprising pigmented base and a hardener, specifically formulated to protect concrete and steel. Supplied as a two-component system comprising a pigmented base and a hardener, it requires only on site mixing to produce an easily applied water dispersible epoxy coating which is odour free, non-flammable and non-toxic when dry. Can be safely used in areas where contact with foodstuffs is envisaged or for Coating potable water storage tanks.

USES

TOP Protect DW is recommended as a protective coating for the internal protection of tanks, sumps and walls and as a pore free surface sealer resistant to the growth of bacteria. **TOP Protect DW** is used for lining and waterproofing potable water retaining structures and surfaces subject to contact with food stuffs. The cured film is resistant to corrosion, chemical attack and abrasion and is suitable for application to reservoirs, tanks, silos, water treatment works, breweries, dairies, meat and food processing plants.

ADVANTAGES

- Excellent adhesion on dry and damp surfaces
- Food grade & Hygienic – Suitability to potable water and food stuff storage
- Solvent free – No fire hazard
- Non-toxic, Low odour, VOC content Nil
- Forms a smooth, glossy and to easy clean surface on curing
- Easily applied by brush, roller or airless spraying equipment
- High abrasion and chemical resistance
- Waterproof and Protective

TECHINICAL PROPERTIES

Color & Appearance	Grey Liquid
Bond Strength	>2.7 (100% concrete failure)
Initial Cure	24 hours @ 25° C
Final Cure	7 days @ 25° C
Coverage	0.3-0.6kg / m ² / coat
Compressive Strength	45 N/mm ²
Dry Film Thickness	Min 400 microns
Density at 25°C	1.5 g/cm ³
Working life at 25°C	40 Minutes

PACKING

TOP Protect DW is supplied in 5 Kg Unit.

COVERAGE

TOP Protect DW will have coverage of 0.3-0.6kg/m²/coat, two coats are recommended.

STORAGE

12 month in its original unopened container. Store in a dry place at 25°C.

APPLICATION PROCEDURE

SURFACE PREPARATION: Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae.

Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds.

Ensure concrete is at least 28 days old and sound, cutting back where necessary and making good using suitable Top Crete and Epoxy putty repair systems.

All surfaces should then be grit blasted to remove all foreign matter and open up blow-holes, and provide application for **TOP Protect DW**.

STEEL SURFACES: All surfaces should be grit blasted to obtain bright metal surface. The lining work should be programmed so that newly cleaned steel is coated as soon as possible before the formation of rust or scale.

MIXING:

TOP Protect DW is supplied in two pre-weighed components, Base and Hardener. Properly stir each component separately before mixing together to ensure uniform consistency. MYK COAT EFG is supplied in pre-proportioned kits for complete mixing. Combine Hardener and Base component in a suitably sized container. Ensure to scrap the sides of the containers to ensure a complete reaction. Mix properly for 3 minutes with a slow-speed drill and wing style mixing paddle at 300-400 rpm until a homogeneous colour is achieved. Keep the paddle below the surface to avoid entrapping air. Do not mix by hand.

APPLICATION

TOP Protect DW can be applied using short nap roller, shorthaired brushes or by airless spray. It is recommended that **TOP Protect DW** coating be applied in two coats of contrasting colors to ensure complete coverage. Prior to the application of each coat the surface should be examined for signs of pin-holing, etc. Where pin-holing is evident these should be filled using **TOP FIX EP** thixotropic epoxy resin filler.

If the application is delayed more than 16 hours at 40°C or 36 hours at 20°C after the previous coat (the higher the ambient temperature, the shorter the maximum period), then the previous coat must be thoroughly abraded to give an adequate mechanical key and solvent wiped.

Airless spray: For application by airless spray, use a pump with 45:1 or higher ratio, minimum 9 mm dia hoses and a nozzle tip of size 0.48 mm to 0.58 mm.

CHEMICAL RESISTANCE:

TOP Protect DW is resistant to intermittent spillages of the following typically encountered chemicals:

- ❖ Formaldehyde, 40% solution
- ❖ Sulphuric Acid, 50% solution
- ❖ Hydrochloric Acid, 50% solution
- ❖ Hydrochloric Acid 5% solution
- ❖ Lactic Acid, 50% solution
- ❖ Nitric Acid, 10% solution
- ❖ Sodium Hydroxide, 50% solution
- ❖ Diesel oil
- ❖ Wine
- ❖ Sea and brackish water
- ❖ Aviation hydraulic fuels (Skydrol)
- ❖ Vegetable oils

Note: Higher concentration of mineral acids may cause matting of the surface and colour changes.

CLEANING

TOP Protect DW should be removed from tools and equipment with Thinner, solvent immediately after use. Cured material can only be removed mechanically.

SAFETY PRECAUTION

Contact with skin and eyes should be avoided. Gloves should be used when handling these products. If contact with the resin occurs, wash immediately with a strong detergent or a resin removing cream. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

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