



STERLING[®]Hydrofin[®] TankCoat DW

TECHNOTRADE Solvent free Epoxy resin coating for Potable Water Retaining Structures.
The Specialist Construction Chemical Company

Description:

Sterling[®] HydroFin[®] TankCoat DW is a two component, solvent free, epoxy resin material. It is supplied in pre-measured quantities ready for site mixing and use. The material cures to provide a smooth, hygienic and tough finish which is suitable for contact with potable water and foodstuffs.

Sterling[®] HydroFin[®] TankCoat DW is suitable for use of 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.

Application Includes:

For lining and waterproofing potable water retaining steel & concrete structures like:

- Reservoirs & Tanks.
- Food processing industries.
- Water treatment plants.
- Breweries, pharmaceutical & distilleries industries, dairies and silos.

Features & Benefits:

- Food grade & Hygienic-Suitability to potable water and food stuff storage.
- Compatible with all substrates-Can be applied directly on to mild steel and concrete
- Aesthetic-Forms a smooth, glossy and to easy clean surface on curing
- Abrasion resistant- Exceptional resistance to abrasion and to a wide range of chemicals
- Corrosion resistant- Does not contain any metallic particles
- Chemical resistant- Proven against a wide range of industrial chemicals
- Solvent free & Nontoxic- No odour during application and can be used in confined areas.

Application Procedure:

Surface Preparation:

A- Concrete surfaces:

All surfaces must be smooth, sound and free from debris, loose or flaking material and areas of standing water. Surfaces must be free from contamination such as oil, grease, dust, loose particles and organic growth. Concrete surfaces must be fully cured, laitance free and free from any traces of shuttering, release oils and curing compounds. All surfaces should then be grit blasted to remove all foreign matter and open up blow-holes, and provide a suitable key for Sterling[®] HydroFin[®] TankCoat DW. All blow holes and imperfections should be filled with Sterling[®] TechnoSeal[®] EP 1500-High Build Epoxy mortar.

B- 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:

The contents of the base should be stirred thoroughly to disperse any settlement. The entire contents of the hardener can should be poured into the base container and mixed thoroughly until a uniform consistency is obtained, taking particular care to scrape the sides and bottom of the container. It is recommended that mechanical mixing be employed, using a mixer or a heavy duty, slow speed electric drill fitted with a paddle.

Application:

- The thoroughly mixed material should be applied with a suitable stiff nylon type brush.
- The first coat must be firmly applied and be well scrubbed into the surface, ensuring a uniform coating with a wet film thickness not less than 100 microns.
- The first coat should be allowed to become tack free before applying the second coat.
- The second coat should be applied exactly as above, again achieving a wet film thickness not less than 100 microns.
- For cold weather working, it is recommended that for Sterling[®] HydroFin[®] TankCoat DW be stored in a heated building and removed immediately before use, as workability deteriorates and curing times increase at lower temperatures.
- Any surfaces should be treated with two coats of for Sterling[®] HydroFin[®] TankCoat DW

Typical Properties at 20°C

Volume of solids	100%
Specific gravity/Mixed density	1.85 g/cc
Application Temperature	10 to 40°C
Viscosity	Pourable, spreadable liquid
Pot life	60-80 min.@ 20°C 40-50 min. @ 30°C

Packaging:

Sterling® HydroFin® TankCoat DW is supplied in 15 & 30 Kg premeasure composite Pack.

Design Criteria:

Sterling® HydroFin® TankCoat DW is designed to be applied in two coats to achieve a minimum total dry film thickness of 200 microns. To achieve the correct protective properties, Sterling® HydroFin® TankCoat DW must be applied on to the substrate at the coverage rates recommended.

Shelf Life & Storage:

The shelf life is 12 months from the date of production if kept in dry store between 5°C and 30°C in the original, unopened containers. Storing in dry conditions at temperatures between 5°C and 30°C in the original unopened containers is recommended. If stored at high temperatures the shelf life may be reduced.

Coverage:

Sterling® HydroFin® TankCoat DW covers approx. 7-8 m² per Kg per coat at 100 micron thickness. The coverage figure is theoretical due to wastage factors and the variety and nature of substrates, practical coverage figures may be substantially reduced.

Limitations:

Sterling® HydroFin® TankCoat DW is formulated for application to clean sound concrete and steel. HydroFin® TankCoat DW should not be applied over existing coatings. Application should not be undertaken if the temperature is 10°C and falling, nor when the prevailing relative humidity exceeds 90%. Apply a coat of TechnoSeal® PrimePlus (WB) to damp concrete, there must be no standing or running water. Sterling® HydroFin® TankCoat DW, the final colour can vary with curing conditions, and in adverse conditions such as low temperature and/or high humidity, a white bloom may appear on the surface. However, this does not affect the performance of the coating.

Cleaning:

Used tools and equipment must be cleaned carefully with an appropriate solvent like TechnoPur® Eco Cleaner. Once cured Sterling® HydroFin® TankCoat DW can only be removed by mechanically.

Hardness, Shore D (ASTM D 2240)	≥ 80
Tensile Strength (ASTM C 307)	15 MPa @ 7days
Compressive Strength (ASTM C 579)	≥ 82 MPa @ 7days
Flexural Strength (ASTM C 580)	≥ 35 MPa @ 7days
Recommended No of coats	2 (minimum)
Initial cure	24 hours @30°C
Full cure	7 days

Health & Safety Instructions:

Protect your health while working with this material, always use safety goggles, gloves and safety clothing. When handling hazardous materials or pressurized materials, or during any application that may result in spills, splashes or airborne particles, a full face shield is strongly recommended. Protect yourself and others on the jobsite. Consider property in proximity of the application area to prevent loss or damage.

Protect your jobsite from unauthorized persons. Store all materials and equipment safely and out of reach of children and animals. Observe container labels, SDS, applicable laws and regulations and all instructions before using the product and equipment. In case one of the components comes in contact with the skin, wash thoroughly with soap and water. Provide adequate ventilation in volume and pattern in working area.

***Further protection:** emergency showers and eyewash stations. Get immediate medical attention as needed.

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Disclaimer: The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.

Additional Information: Techno Builders Solutions® By Sterling Technotrade India Pvt.Ltd -The Specialist Construction Chemicals Company® range of associated products includes high performance concrete Admixtures, Adhesives, Protective Coatings, Concrete Repairs, Industrial Flooring, Grouts & Anchors, Joint Sealants, Surface Treatments, curing compounds, repair mortars, release agents, Grinding Aids & Waterproofing.

*Separate datasheet are available on these products.

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