

Technical Data Sheet

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Product Name: RELINFORCE Surface Shield IV CTHB

Two component, high build coal tar epoxy coating

Applications

It is commonly used to make high solids coatings or paints to provide moisture protection for underground systems like pipelines, water treatment facilities, clarifiers and tanks; it is further used in the sewage industry and for prevention from microorganisms.

Features & Benefits

The product offers

- Good resistance to corrosion in marine exposure and subsoil conditions
- Good abrasion resistance
- Good chemical resistance
- Excellent water resistance

Mechanical Properties

Bond Strength @ 25° C	> 4 MPa on metal
	> 1.5 MPa (Concrete Failure)

Component Details & Physical Property

	Part A - Base	Part B - Hardener	Mixed
Feel	Liquid	Liquid	
Mixing Ratio, by volume	100	25	-
Mix Color			Black & Brown
Pot life*, Mins			60 -90 Mins
Touch dry time @ 25° C			2 - 3 Hours
Cure Time			Overnight
Overcoating Interval			24 hours minimum to 5 Days maximum
Volume Solids			~80 ± 2%
Application Thickness (DFT)			150 – 200 microns in 1 coat 300-350 microns in 2 coats
Theoretical Coverage			3.5 – 4.5 Sqm/Lit at 150 Micron DFT with stated volume solids
Chemical Resistance			Excellent to majority of chlorides, salts, sulphates & Alkalies.

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Curing Temperature Range		20-40 °C
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* 100 Gm mix mass pot life at 25°C.

**Ambient Temperature will affect the Pot life & Setting Time of the Product & is inversely related

Application Procedure

Surface Preparation: All surfaces to be coated should be clean, dry and free from contamination. Prior to application, all surfaces should be assessed and treated in accordance with ISO 8504:2000. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning. Ensure the surface doesn't suffer from osmosis issues. In case of old substrates, determine the general condition, soundness, presence of contaminants, etc. and remove localized weak or deteriorated materials from the surface. In the areas where the contaminants cannot be removed, complete removal and replacement of the contaminated surface is typically considered

Mixing: Material is supplied in two packs as a unit. Always mix a complete unit in the proportions supplied to avoid any miscalculations. Once the unit has been mixed it must be used within the working pot life specified. Over mixing is to be avoided to minimize air entrainment. (1) Agitate Base (Part A) and Hardener (Part B) with a power agitator separately. (2) Combine entire contents of Hardener (Part B) with Base (Part A) and mix thoroughly with power agitator

Application: Painting can be done using brush & roller only. RELINFORCE™ thinner can be used if required.

Clean Up: Clean all equipment immediately after use with cleaning thinners. It is good working practice to periodically flush out equipment one time in a day. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations.

Packaging Size

- Part A (Base) : 16 Liter
- Part B (Hardener) : 4 Liter

Shelf Life

- Part A (Base): 12 Months
- Part B (Hardener): 12 Months

Storage Condition

- Material to be stored in cool dry place
- To be kept under shade with no direct sunlight

Health & Safety Hazard Condition

Please refer to MSDS for detailed information on the health & safety hazard while using the product.

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