

Technical Data Sheet

Date of Issue: 1st April 2021

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Product Name: RELINFORCE Surface Shield IV HS Top Coat

It is a two component, high solid epoxy topcoat with excellent chemical resistance

Description

The product offers a high level of full gloss enhancing the value of the finished article. The product can be air dried or stoved enabling flexibility in production

Applications

- Top coat on various substrates steel/ GI/ concrete
- Available in variety of RAL shades & gloss levels
- Offers life expectancy of upto 10 years in C3 internal environment when used with suitable RELINFORCE™ primers

Features & Benefits

- Excellent adhesion to variety of substrates
- Lead free pigmentation
- Low VOC
- Excellent toughness & exterior durability
- Superior water & chemical resistance

Mechanical Properties

| | |
|-----------------------------------|--------------------|
| Bond Strength @ 25 ^o C | > 1.2 MPa on metal |
|-----------------------------------|--------------------|

Component Details & Physical Property

| | Part A - Base | Part B - Hardener | Mixed |
|-------------------------------|---------------|-------------------|---|
| Feel | Liquid | Liquid | |
| Mixing Ratio, by volume | 4 | 1 | - |
| Mix Color | | | Appropriate RAL Shade |
| *Pot Life @ 25 ^o C | | | 30-45 minutes |
| Cure Time | | | 1-2 hrs Touch Dry 3-4 hrs Hard Dry Full Properties 7 days |
| Overcoating Interval | | | 5-6 hours minimum to 12 months maximum |

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Component Details & Physical Property (Contd.)

| | | | |
|---------------------------------|-----|-----|--|
| Application Thickness | | | 50-75 microns (2-3 mils) dry thickness |
| Coverage | | | 10-11 m ² / liter at 40 micron dft |
| Curing Temperature Range | | | 15-35 °C |
| Yield (Pack) | 4 L | 1 L | 5 L |

* 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 air spray, airless spray, brush & roller. 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: 4L
- Part B - Hardener: 1L

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Shelf Life

- Base: 6 Months
- Hardener: 6 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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