

# SIPOXY-SHIELD 285

## Low VOC, Multi Purpose Epoxy Coating

Product No. 6285

### Features

- New Ultra High Solids Technology/Low VOC.
- Outstanding Corrosion Resistance.
- Lowers Cost of Surface Preparation.
- Low Temperature Cure - Fast Recoat :
- Recoatable in 3 Hours at 21°C.
- Self Priming
- Polyamide cured multi-purpose, surface tolerant coating.
- Available in high lustre Aluminium RAL 9006.
- Micaceous Iron Oxide version available upon request for specific requirement.
- Approved under APCS-26 & 26T

### Recommended Use

- Sipoxy-Shield 285 is a true universal coating tank lining ballast tanks, water tanks, bilge and any other water containment structures, cargo, chemicals, and fuel. See tank lining chemical resistance table.
- Ships, offshore and marine structures: Above and below water hulls, decks and superstructures, internal tanks, voids and wet spaces – ideal maintenance coating.
- Structural steel, equipment and masonry surfaces: pulp and paper mills, chemical and fertilizer plants, sewage treatment plants, tank farms, piping and bridges.
- Fabrication and new construction : speeds up production; fast recoat and cure even at low temperatures,

### Physical Data

**Finish** : Semi-Gloss

**Colours** : Various  
Aluminium (RAL 9006) &  
(RAL 9007)

**Volume Solids** : 90%

**Recommended Film Thickness:**

100-200 microns dry

111-222 microns wet for Colors

125-250 microns wet for Alum.Ral 9006, Ral 9007

**Theoretical Coverage:**

9 m<sup>2</sup>/ltr. at 100 μ

**Density (mixed)** : 1.44 kg/ltr.

**Drying Times** : 25°C / 65%RH

Dry to Recoat : 04 Hours

Hard Dry : 08 Hours

Maximum Recoating Time : 06 Months

**Heat Resistant** : 121°C dry

**Flash Point** : 28°C

### Specification Data

**Preparation**

All heavy-duty corrosion control coatings provide the maximum performance over near-white blast cleaned surfaces.

There are, however, structures where it is not possible to obtain this ideal surface condition. SIPOXY-SHIELD Coatings were designed to provide excellent service over less than ideal surface preparation.

The surface preparation recommended for SIPOXY-SHIELD 285 is to include removal of water, salt, dirt, oil, loose rust and all mill scale. This can be accomplished with hydroblasting, grit sweeping and with a variety of mechanical descaling tools. The minimum standard for non-immersion service is Steel Structures Painting Council Standard SSPC-SP6 or Swedish Standard Sa 2; for immersion service, the minimum standard is SSPC-SP10 or Swedish Standard Sa 2.5. For very rusty non-immersion surfaces, SIPSEAL 220 should be considered before application of SIPOXY-SHIELD 285.

## Application Data

<b>Mixing Ratio by Volume</b>	<u>All Colours</u>	<u>Aluminium (RAL 9006) only</u>
	Base : 3 parts	Base : 1 part
	Hardener : 1 part	Hardener : 1 part
<b>Mixing Advice</b>	SIPOXY-SHIELD 285 is a two component product. The entire contents of each container must be mixed together. Power mix the base portion for 5-10 minutes to obtain a smooth, homogeneous condition. Add the hardener slowly with continued agitation. After the hardener add is complete, continue to mix slowly for few minutes.	
<b>Thinning</b>	Thinner 740 Thinning is not normally required or desired; however, at lower temperatures or in extreme conditions, 20% or less of thinner can be added. Any solvent addition should be made after the two components are thoroughly mixed.	
<b>Note:</b>	Use only Thinner 730 for thinning Aluminium (RAL 9006)	
<b>Induction Time</b>	SIPOXY-SHIELD 285 requires a 15 minutes induction time at 25°C.	
<b>Pot Life</b>	4 hours at 25°C.	
<b>Application Details</b>	SIPOXY-SHIELD 285 can be applied by airless and air spray methods, however, the preferred method of application is with heavy-duty airless spray. For airless spray application, a 30 to 1 pump and .019" to .027" tip size will provide a good spray pattern. SIPOXY-SHIELD 285 may also be applied by brush or roller. Antifouling paints should be applied over SIPOXY-SHIELD 285 before the SIPOXY-SHIELD 285 has cured hard.	
<b>Notes</b>	Generally all Sipoxy Shield 285 shades can be topcoated except Sipoxy Shield 285 Aluminium Ral 9006, which is recommended as a one coat primer/finish topcoat. It can be topcoated provided coating is weathered and abraded prior to finish coat application.	
<b>Ventilation</b>	It is very important for the safety of the applicator and the proper performance of the SIPOXY-SHIELD 285 that good ventilation be provided to all portions of the enclosed area. It is equally important to bring into the enclosed area dry, fresh air to remove all solvent vapours. Since all solvent vapours are heavier than air, ventilation ducts should reach to the lowest portions of the enclosed areas as well as into any structural pockets. Ventilation should be provided throughout the cure period to insure all the solvents are removed from the coating. For potable water tanks, it is essential that full ventilation be maintained for seven days before use.	
<b>Cleaning of Equipment</b>	Use Thinner 740.	

## Storage Information

<b>Pack Size</b>	5, 10 and 20 ltr. two component kits.
<b>Storage</b>	Store generally in original sealed container, indoors, at a temperature between 5 and 40°C and relative humidity below 70%.
<b>Shelf Life</b>	1 Year

## Safety Information

See the material safety data sheet and product label for complete safety and precaution requirements.

## Disclaimer

The information in this data sheet represent test results or experience under well defined conditions. Its accuracy or suitability under the actual conditions of any intended use is not guaranteed and must be determined by the user. All advice given about this product is given in good faith. Since as we have no control over conditions of substrate and application, manufacturer and seller can not accept any liability in connection with the use of the product relative to coverage, performance, injury or damage, unless we specifically agree in writing to do so. The information in this data sheet is subject to change without notice and it is the user's responsibility to ensure it is current. For further information and advice contact SPCO Technical Services Department on Tel. (03) 847 2299, Fax (03) 847 3780.