

## **Technical Data**

Product number 1TR2200HS HRCSA

**Product name** 

TERMARUST PENETRANT/SEALER

#### **Product description**

Termarust TR2200HS HRCSA (High Ratio Co- Polymerized Calcium Sulfonate) Penetrant Sealer is a 100% solids, zero VOC, high performance environmentally friendly proprietary penetrant sealer formulated specifically to remain active and is a type of co-polymerize reacted synthetic resin with a unique patented crystalline modification that cures by air oxidation. High Ratio Co-Polymerized Calcium Sulfonate (HRCSA) coatings are formed by reacting a specific acid, using a proprietary process and a base made of a specific synthetic (grown artificially as opposed to natural crystalline base material) with polymers, to form an active chemistry for the control of corrosion, crevice corrosion and pack rust. Its unique properties allow it to neutralize acid, displace moisture, scavenge oxygen, thoroughly wet surfaces and stop crevice corrosion, pack rusting, and corrosion frozen bearings on steel structures. The unique chemistry addresses the physical and chemical components of the crevice corrosion and pack rust.

#### Uses

For application to pack rusted joints, crevices, back to back angles, corrosion frozen bearings or tubing on steel structures such as bridges, towers, cranes, conveyor systems, cable suspension systems and vehicle frames where gaps exist, coating is impossible.

#### Advantages

Soaks into the crevice corroded or pack rusted joints or connection and into corrosion frozen bearings by polar attraction and chemically stops the corrosion by neutralizing the acid, displacing the moisture and scavenging out the oxygen.

#### Chemistry

High Ratio Co-Polymerized Calcium Sulfonate HRCSA:

Contains a Minimum of 15% active sulfonate, must maintain a 9-11 to  $1 \pm 2\%$  ratio Total Base Number to Active Sulfonate; i.e.: total base number of 135 to 165 to 15% Active Sulfonate as determined by Titration Testing (See Termarust Technical Dept. for testing protocols)

#### **Solvent**

Termarust thinner TRT01

#### Color

Amber solution

#### Gloss

Low Gloss

#### Viscosity

30-40 seconds #4 Ford Cup

# Solids by weight

100%

## Solids by volume

100%

## **Relative Density**

~ 1.029

## **Volatile Organic Compounds (VOC)**

Zero

#### Sag resistance

NA

## **Dry Film Thickness (DFT)**

Variable

#### **Spread rate**

39.4 sq. m. per litre @ 25 microns DFT 1604 sq. ft. per U.S. Gal. @ 1 mil DFT

# **Surface preparation**

Spot repairs of failed joints

Remove excessive dirt and contaminants. Open joints with a sharp object, blow dry to allow the Termarust TR2200HS HRCSA High Ratio Co- Polymerized Calcium Sulfonate Penetrant/Sealer to penetrate thoroughly.

## SSPC SP WJ4 High Pressure Water Cleaning (HPWC) joints:

Crevice Corroded Joints should be blown dry with clean, dry 100 PSI high-pressure air to insure water has been removed. When used without the Termarust TR2100 HRCSA High Ratio Co-Polymerized Calcium Sulfonate Primer/Topcoat, two applications of Termarust TR2200HS HRCSA High Ratio Co-Polymerized Calcium Sulfonate Penetrant/Sealer are recommended for maximum performance. In this case allow at least 12 hours between applications.

## **Application**

Thoroughly wet out all joints, crevices, cables, corrosion frozen bearings, back to back angles, tube interiors and areas to be protected with Termarust TR2200HS HRCSA High Ratio Co- Polymerized Calcium Sulfonate Penetrant/Sealer by pressure spray or brush.

Excessive Termarust TR2200HS HRCSA High Ratio Co- Polymerized Calcium Sulfonate Penetrant/Sealer allowed to remain on other surfaces will inhibit the dry of the Termarust TR2100 HRCSA High Ratio Co- Polymerized Calcium Sulfonate Primer/Topcoat and should be brushed out.

#### **Application Equipment**

Air less Spray, Conventional Spray Gun, Pressure Rust Proofing Gun, Hudson Chemical Sprayer, Small Pump Sprayer, Brush if spray not available.

# **Application Temperature**

The coating should not be applied at temperatures below 2°C or 35.6°F. No Coatings should be applied unless the steel surface temperature is 3°C or 5°F above the dew point.

# **Compatible systems**

Termarust TR2100 HRCSA (High Ratio Co- Polymerized Calcium Sulfonate) Primer/Topcoat (Remove excess Termarust TR2200HS HRCSA High Ratio Co- Polymerized Calcium Sulfonate Penetrant/Sealer before applying topcoat)

#### **Thinning**

Spray: No thinning required

## Clean up

**Termarust Thinner TRT01** 

## **Dry time**

When used as a penetrant only, allow 24 hours for maximum penetration. Termarust TR2200HS High Ratio Co- Polymerized Calcium Sulfonate Penetrant/Sealer may be top coated wet on wet when an extra 10 mils DFT of Termarust TR2100 HRCSA High Ratio Co- Polymerized Calcium Sulfonate Primer/Topcoat is applied to the pack rusted joints, crevices, corrosion frozen bearings or back to back angles during the cutting in process.

# Weight per US Gallon

8.60lbs  $\pm .25$ 

#### **Shelf life**

12 months in original unopened container when stored in a protected area where the temperature is between 5°C and 30°C (41°F-86°F). After 12 months material should be mixed and inspected before use.

#### **Safety Precautions & Regulatory Data**

Flashpoint 140°C (284°F). Keep away from heat, open flame and sparks. Avoid contact with skin and eyes. Avoid prolonged breathing of vapor. Read label instructions carefully and refer to Material Safety Data Sheet supplied. This product is for industrial use only and is not intended for use in or around a household or dwelling.

#### **Notes**

The technical data given herein has been compiled for your help and guidance and is based upon our experience and knowledge. It is subject to modification from time to time in the light of experience and our policy of continuous product development. Persons using this product must first satisfy themselves as to its suitability for the intended purpose. Please contact your representative for complete recommendations. A complete Termarust TR2200HS High Ratio Co- Polymerized Calcium Sulfonate Penetrant/Sealer application specification is available upon request.

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