



THE BEST CORROSION CONTROL PERFORMANCE, GUARANTEED!

Technical Data

TERMARUST[®] TR2100 HIGH RATIO CO-POLYMERIZED CALCIUM SULFONATE SELF PRIMING TOPCOATS

DESCRIPTION

Termarust[®] TR2100 High Ratio Co-Polymerized Calcium Sulfonate Self Priming Topcoat is a pigmented Reacted Alkaline Viscolastic Calcium Sulfonate coating, designed and engineered exclusively for **encapsulation (overcoat) of existing aged leaded paints, vinyls, coal tar epoxy, polyurethanes, epoxy mastics, organic or inorganic zinc, galvanizing, metallizing, acrylics, core 10 steel and tightly adhered contaminant free rust, or re-coating of new or prepared structural steel.** Ideal for use with Low to High Pressure Water Cleaning. ie: 5000 PSI at 5 Gallons per minute.

Termarust[®] TR2100 High Ratio Co-Polymerized Calcium Sulfonate Self Priming Topcoat enhances the following characteristics:

- Advanced Technology
- Applicator Friendly

- High Performance
- Surface Tolerant

- Single Component
- Non Hazardous

- Single Coat
- Low VOC

- High Solids
- Non-conductive

- Superior Anti-Corrosive Protection
- Field proven performance over 24 years

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Termarust® TR2100 High Ratio Co-Polymerized Calcium Sulfonate Self-Priming Topcoat outperforms zinc/epoxy/urethane systems.

USES	Termarust TR2100 High Ratio Co-Polymerized Calcium Sulfonate Self-Priming Topcoat allows tremendous flexibility in surface profile and preparation. It is ideal for the reclamation and long term protection of bridges, steel structures, highway overpasses, utility towers, cable suspension systems, pipelines, storage tanks and industrial infrastructure
COLOR	All colors available on request
GLOSS AT 60°	15-25° ASTM D523
COMPATIBLE SYSTEMS	Termarust TR2200 Penetrant/Sealer, Termarust TR2010RI Flash Rust Inhibitor. Termarust 2300 Specialized Protective Coatings
RESIN TYPE	High Ratio Co-Polymerized Calcium Sulfonate (Minimum 9.5% active sulfonate, a total base number of 95 to 110, must maintain a 10 to 1 ratio Active Sulfonate to Total Base Number)
SOLVENT	Termarust Thinner TRT 01
SOLIDS BY WEIGHT	74% ± 2% (depending on color) ASTM D2369
SOLIDS BY VOLUME	63.5% ± 2% (depending on color) ASTM D2697
LC50 TROUT 96 HOURS	41,007 ppm (does not adversely effect marine life)
V.O.C. (Volatile Organic Compound) ASTM D2369	270-310 grams per litre (depending on color) 2.25-2.58lb. /U.S. Gallon. (depending on color)
WEIGHT PER GALLON	1.095 kg/litre ± .25% 9.13 lbs/US Gal. ± .25%
RECOMMENDED DFT (DRY FILM THICKNESS)	250 - 300 microns - 10 - 12 mils DFT recoat (prepared steel) 125 - 175 microns - 5 - 7 mils DFT overcoat (existing coatings)



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ELONGATION	700%
SPREADING RATE	25 sq. m. per litre @ 25 microns DFT 1020 sq. ft. per U.S. Gal. @ 1 mil DFT
DRY TIME @ 25°C - 50% R.H. (relative humidity)	12 to 24 hours depending on film thickness and ambient temperature Note: Does not get brittle like conventional paints
VISCOSITY	7000-12000 CPS ASTM D2196 RVT #6 AT 10 RPM
SURFACE PREPARATION	All grease, oil, grime, and other contaminants must be removed from the surface using, commercial detergent or other suitable cleaning method (SSPC-SP1). Hand tool cleaning (SSPC-SP2), power tool cleaning (SSPC-SP3), or Low to High Pressure Water Cleaning (SSPC-SP12-WJ4), is sufficient preparation to produce excellent results, SSPC-SP6 or SSPC-SP12-WJ3 (L to M) is recommended for immersion service. The prepared surface must be analyzed for Chloride Nitrate and Sulfate content (Termarust has test kits available). Upper limit is per SSPC SP12-NV2. when using water. See painting spec for allowable levels when abrasive blasting.
APPLICATION	The Termarust TR2100 Self-Priming Topcoat should not be applied at temperatures below 2°C or 35.5°F with a steel temperature not less than 2°C or 35.5°F. There must be a 2° C or 5° F spread between temperature and dew point. To apply the coating the relative humidity should be no greater than 99% and the steel should be free of surface moisture. Note: Termarust TR2100 Self-Priming Topcoat may be applied below freezing (-18°C or 0°F). This is not recommended unless steps are taken to control ice crystals on the steel before application. i.e. spot heating. Cold temperatures will slow the coating's cure.
THINNING	Brush/Roller: Up to 10% with TRT 01 Conventional Spray: 10% with TRT 01 Airless Spray: No thinning required
CLEAN UP:	Use TRT 01



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PERFORMANCE DATA	Salt Spray Resistance:* (ASTM B117)	@4 mils DFT 2,000 - 3,000 hours with <1% total area failure and < 2mm creep at the scribe (ASTM D1654) @10 mils DFT 7000-7500 hours
	QUV Weatherometer Result:* (ASTM 653)	@ 4 mils DFT 3,000 - 4,000 hours. Passes with no peeling, flaking or corrosion
	C151B Xenon Arc	@ 4 mils DFT Passes with no peeling, flaking, or corrosion
	Weatherometer Performance:*	@ 4 mils DFT 1,000 - 2,000 hours
	K.T.A. Tator Enviro-Test ASTM Standard Practice draft #1 Date 04-10-92	10 mils DFT SP6-Steel 4,445 hours 10 mils DFT Aged Alkyd 1,200 hours 5 mils DFT SP6 – Steel 2,248 hours 5 mils DFT Aged Alkyd 1,520 hours
OTHER PROPERTIES	Resistance to fresh water immersion	excellent
	Resistance to seawater immersion	fair
	Resistance to seawater splash zones	excellent
	Resistance to aliphatic solvents	fair
	Resistance to aromatic solvents	poor
	Flexibility	good-excellent
	Ultimate film hardness (ASTM D3363)	4B



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SHELF LIFE

12 months minimum in original unopened container when stored in a protected area where the temperature is between 5°C and 30°C (41°F - 86°F).

Note: After 12 months verify the coating to see if a skin has formed. If a skin is present remove skin and mix the material. Before an open container is closed a thin layer of TRT 01 should be poured on top. This will retard any skinning.

SAFETY INFORMATION

Treat as flammable liquid - Flashpoint 42°C (108°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.

*All films pigmented, data is formulation dependent.