

technical Information

#1411

ProTek-RUSTCOTE™

DIRECT TO RUST MOISTURE CURING
1-PART POLYURETHANE COATING

PRODUCT DESCRIPTION

ProTek-RUSTCOTE™ is a unique one-part moisture curing polyurethane formulated specifically to achieve mechanical (not chemical) adhesion to tightly adherent metallic rust and other porous substrates. **ProTek-RUSTCOTE™** is fortified with non-sacrificial rust inhibitors and will not "wear out" due to galvanic sacrifice like zinc compounds do. **ProTek-RUSTCOTE™**'s unique formulation plates onto the surface, penetrating deeply into the pores. As curing begins the base polymers swell into the pores creating an encapsulating network. This process produces an extremely tight and permanent bond with the substrate. **ProTek-RUSTCOTE™** leaves an extremely tough, flexible and highly abrasion resistant surface virtually immune to salts, acids, alkalines, and solvents. **ProTek-RUSTCOTE™** can be used as a PRIMER or as a TOP COAT.

APPLICATION PROCEDURE

Surfaces **must be completely dry**, clean of oil, dirt and wax residues and free of loose scale before application. Remove loose or flaking coatings or loose rust using high pressure water, wire brush and/or power tools lightly sand-blast. (Old solvent-based coatings can remain if bonded solidly to surface). Stir product well and often. Do not use high speed mixer. **ProTek-RUSTCOTE™** adheres to metal, masonry, wood, fiberglass and most other substrates. It can be applied by brush, roller, airless sprayer, pressure/siphon sprayer, or high volume low pressure (HVLP) equipment. **ProTek-RUSTCOTE™** may be used as an undercoat or as its own top coat. ONE coat is usually sufficient. If TWO coats are required, observe the 2^d coat application "window." Avoid excessive wet buildup. **Clean up:** Solvents MEK, (Methol Ethel Ketone), MIBK (Methol Iso Butyl Ketone).

SAFETY CONSIDERATIONS

Use OSHA/NIOCH/NSHA approved respirator or breathing equipment. Do not take internally. Protect against contact with eyes and skin. If product comes in contact with eyes, flush immediately with water and contact a physician for medical attention. Avoid contact with skin (difficult to remove). For quickest removal from skin, wash with water before product dries. **KEEP OUT OF REACH OF CHILDREN.** This is a flammable liquid. Keep away from open flame or other ignition sources.

Disposal of Unused Product: Dispose of unused product in EPA approved hazardous waste processing facility. Do not pour into sewer or storm drainage system

PHYSICAL PROPERTIES

Vehicle Type: Aromatic Polyurethane

USDA-approved (safe around foods)

Lead and chromate-free

Solids: 45% (by weight)

Pigment Type: Aluminium

Color: Silver

Gloss: Low angular sheen

Salt Spray Corrosion Test: ASTM B117 @ 450 hours evaluation ASTM D1654 over black steel. Rating Procedure B:9. Key to Rating 0-10: 0=complete failure, 10=excellent

VOC--Rating: 414 gram/lit., California *EPA (Table of Standards)* maximum accepted VOC allowed is 500 grams/liter under the classification of: "**Metallic pigmented coatings**"

Viscosity: 15 seconds, #4 Zahn

Weight: 10.8 lb. per gallon

Impact-Resistance: 200+psi Front side/160psi Backside

- Abrasion-Resistance: ASTM (D4060) Graded 18, (excellent) 18 milligram loss per 1000 cycles with the CS 17 wheel using a 1000 gram load. Standard range of loss is 100-150 milligrams per 1000 cycles.

Transmission of electrical current: ProTek-RustCote™ does not show any conduction until 18 volts. Important for underground pipes and tanks.

Film Thickness: 4-5 wet mil coat, 2-2.5 dry mil (@ 200 sq.ft./gal)

Dry Time:

To Touch.....45 minutes

To re-coat45 minutes-aplly 2^d. coat within 4 hours.

(Will accept other coatings, but does

accept

itself after 4 hours).

To fully cure: 24 – 36 Hours

SHIPPING, STORAGE, DISPOSAL

Shipping ID: Flammable liquid, DOT #UN-1263

Storage: Store in well ventilated room. Store below 80°F. Keep away from flame or ignition sources.

Unused product should be filled into 1 Gallon or Quart cans for later use. Fill product to the top of each can allowing as little air space as possible. Seal cans well.

Open Pot life: 6-8 hours at 77°F /50%RH (skins over)

Shelf life: 1 year stored below 80°F

APPROXIMATE COVERAGE

Metal (as metal primer), Fiberglass: 300 - 400 sq.ft./gal.

Wood, Concrete, Porous Substrates: 200 - 300
sq.ft./gal.

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