

SPICOATINGS

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RUST GRIP® ULVOC

INSULATION AND **CORROSION SPECIALISTS**

Technical Data Sheet (07/10/19)

DESCRIPTION

RUST GRIP® ULVOC is a tough, one-part, moisture-cure polyurethane coating that absorbs atmospheric moisture to cure. RUST GRIP® ULVOC is loaded with a metallic pigment for strength and is also resistant to chemical solvents and acid splash. Upon curing, RUST GRIP® ULVOC provides a protective coating film of superior adhesion and flexibility and is resistant to abrasion and impact. RUST GRIP® ULVOC can be used as a primer or as a one-coating system. It is patented to encapsulate lead-based paints and other toxic materials, including asbestos. RUST GRIP® ULVOC can be applied over pressure-washed, completely dry flash rust and firmly bonded commercial paints. In most cases, a white or near-white blasting is not required. A light to medium surface rust is preferred as the profile.

TYPICAL USES

- As a coating to encapsulate rust, lead-based paints and other hazardous materials.
- As a protective coating on metal, concrete, wood, etc. to add strength and prevent deterioration.
- As a one-coat system on new or existing bridges, oil platforms, roofs, and other commercial/industrial surfaces with minimal surface preparation and non-sparking.

APPLICATION METHODS

RUST GRIP® ULVOC can be applied to concrete or masonry substrates. The coating can be applied by spray, brush or roller. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for RUST GRIP® ULVOC (millage may vary due to surface profile).

NOTE: This product must not be applied on or within 2 inches of chlorinated rubber.

NOTE: Never use mineral spirits to prep surfaces or to thin this

NOTE: For temperatures 95F/35C and above with less than 20% humidity: Rust Grip will dry to touch but will not be completely finished gassing off. If you can move the coating with your fingers, it is not set hard enough to overcoat; if overcoated too soon, bubbles will be caught in the top coat.

NOTE: Zinc rich primers >/= to 8.2 kilo of organic zinc per gallon should be removed by sandblast, hand or power tool prior to application of RUST GRIP® ULVOC Also, surface should be allowed to develop surface rust as the profile before applying GRIP® ULVOC

NOTE: For corrosion protection, RUST GRIP® ULVOC applied over surfaces will encapsulate to block air and moisture. Further, where RUST GRIP® ULVOC is not applied (ie: underside of panels, inside plate assemblies, etc.), the air/moisture is not sealed out to prevent the development of corrosion, which can penetrate through the entire metal thickness to impact structural strength.

MINIMUM SPREAD RATE (mil thickness)

Apply RUST GRIP® ULVOC at a minimum thickness of 12 mils (150 sq.ft./gallon, 14sq.m.) wet/6 mils dry over the highest peaks of the surface profile. Allow for absorption into the substrate and filling profile when figuring spread rate.

TEST AND CERTIFICATIONS

- Tensile Strength (6,780 psi after 3 weeks)
- USDA approved
- E-108-00: Spread of flame on pitched roofs (Class "A" noncombustible)
- 4. G85: Prohesion over rusted metal
- Marine approvals for saltwater/maritime user: ABS (American Bureau of Shipping) IMO (International Maritime Organization)

- Mildew Resistance excellent (ASTM D3273, 3274)
- Chemical Resistance (24 hours/12 reagents)
- Flexibility (Mandrel Bend: ASTM D522) 1/8"
- Direct Impact Resistance (ASTM D2794)
- 10. Adhesion (ASTM D3359, D4541)
- Water Vapor Transmission (ASTM D1653)
- Surface Burning Characteristics (E84)
- Weathering (2000 hours) China
- Scrub Resistance (ASTM D2486)
- ASTM B117 15000 hours, one coat @ 6 mils (150microns) Perfect score
- 16. ASTM E1795 Encapsulation test group
- ASTM D5894 at 10K hrs with perfect 10 score @ 6 mils
- Corps. Of Engineers Guide Specification UFGS 099702; painting hydraulic structures
- Naval Warfare Center, Caderock Div. #NSWCCD-61-TR-2012/65 Materials Dept.
- US Army Construction Engineering Research Laboratories (USACERL) Reports: ERDC/CERL TR-03-05/3/A080263

MEETS USMC SPEC: TM4795-OR/1

PHYSICAL DATA

- Solids: By weight 50-60% / By volume 45-51%
- 30-60 MINUTES TO TACK FREE AT 70°F (21°C)
- Overcoat window is three hours or less at 70°F (21°C)
- Hygroscopic: Cures by absorbing moisture in the air
- Net Weight: 11 lbs. per gallon
- Moisture-cure Polyurethane
- Shelf Life: Up to 3 years (unopened) under appropriate storage condition (see MSDS)
- One component coating; No curing agent needed
- VOC Level: <95 grams/liter; <0.80 lb./gal.
- Silver-gray in color; not available in colors
- Resistant to most solvents, chemicals and some acids
- Maximum Surface Temperature when applying; 150°F (65°C)
- Minimum Surface Temperature when applying; 50°F (10°C)
- Maximum Surface Temperature after curing: 325°F (163°C)
- Failure will occur at a constant temperature equal to or greater than 302°F (150°C); consult SPI for intermittent temperatures greater than 302°F (150°C)
- Non-sparking

SAFETY PRECAUTIONS

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: proper ventilation, use of proper lamps, wearing of protective clothing and masks, tenting, and proper separation of application areas. This coating is flammable. Keep away from fire, or other sources of ignition. For more specific safety procedures, please refer to the RUST GRIP ULVOC Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

LIMITATION OF LIABILITY: The information contained in this data sheet is based upon tests that we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the products made by SPI, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge is reliable. The products and information are designed for users having the requisite knowledge and industrial skills, and the end-user has the responsibility to determine the suitability of the product for its intended use.

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