



RUST GRIP®

TECHNICAL DATA SHEET (6/27/06)

DESCRIPTION:

RUST GRIP is a one-part polyurethane metallic pigmented coating that absorbs atmospheric moisture to cure. Upon curing, RUST GRIP provides a protective coating of superior adhesion, flexibility, abrasion- and impact-resistance. It is resistant to most chemical solvents and acid splash.

RUST GRIP can be used as a primer or a stand-alone coating. It is patented as an encapsulant of lead-based paints and other toxic materials, including asbestos. RUST GRIP can be applied over cleaned flash rust or most firmly bonded paints. In most cases, no near-white metal blasting is required.

TYPICAL USES:

- * As an encapsulant for lead-based paints, rust and other biohazardous materials
- * As a protective coating on metal, concrete, wood, etc. to add strength and prevent deterioration
- * As a single coat for bridges, oil platforms, roofs, etc. with minimal surface preparation
- * As a moisture barrier to stop water penetration, contamination, and mold/mildew

APPLICATION METHODS:

Surfaces should be clean, dry and sound; all dirt, salts, oil, tar, grease and film must be removed prior to application. Can be sprayed, brushed or rolled in 2 coats (20-30 minutes apart). Before using, stir thoroughly--without creating a vortex--to blend all metallic paste from the bottom. For specific instructions on surface preparation, mixing and application, refer to the SPI's application instructions for RUST GRIP.

NOTE: SURFACE MUST BE COMPLETELY DRY.

PHYSICAL DATA:

- * Solids: By weight 62.2% / By Volume 51.37%
- * Cure time at 70F (21C): 2 hours to touch. Overcoat with RUST GRIP or other coatings immediately after surface is dry to the touch to achieve proper adhesion. Higher temperatures and humidity will shorten cure times, lower temperatures will slow curing. Must be overcoated within 2 hours or within 1 hour after reaching the dry-to-touch stage, or the surface must be lightly sanded to achieve good adhesion.
- * Lead and Chromate free
- * Cures by reacting to moisture in the air
- * Weight: 9.18 lbs. per gallon
- * Surface Tensile Strength: 6,780+ psi
- * VOC Level: 414 grams/liter
- * Impact Resistance: 200+ psi front/160+ psi back
- * Shelf Life: up to 3 years (unopened) under appropriate storage conditions (see MSDS)

TESTS AND CERTIFICATIONS:

- 1) Tensile Properties (6,780 psi after 3 weeks)
- 2) USDA Approved
- 3) Marine Approvals for salt water/maritime use:
 - *DNV (Det Norske Veritas) *US Coast Guard
 - *ABS (American Bureau of Shipping)
 - *IMO (International Marine Organization)
- 4) Factory Mutual Approval
- 5) E-108-00: spread of flame on pitched roofs (Class "A" non-combustible)
- 6) Mildew Resistance - (ASTM D3273, 3274)
- 7) Chemical Resistance (24 hours/12 reagents)
- 8) Flexibility (Mandrel Bend: ASTM D522) - 1/8"
- 9) Direct Impact Resistance (ASTM D2794)
- 10) Adhesion (ASTM D3359, D4541)
- 11) Water Vapor Transmission (ASTM D1653)
- 12) Surface Burning Characteristics (E84)
- 13) Weathering (2000 hours) - China
- 14) Scrub Resistance (ASTM D2486)
- 15) Biohazard Encapsulation Approval - (ASTM E1795)

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 flame, fire, or other sources of ignition.

KEEP OUT OF REACH OF CHILDREN.

For more specific safety procedures, please refer to the RUST GRIP Material Safety Data Sheet.

MINIMUM SPREAD RATES:

Film Thickness: Metal (non bridges) - 8 mils wet / 4 mils dry; Concrete - 10 mils wet / 5 mils dry; Wood - 8 mils wet / 4 mils dry

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The information contained in this data sheet is subject to modification as a result of practical experience and continuous product development. This data sheet replaces and annuls all previous issues and the user has the responsibility to ensure that this sheet is current prior to using the product.