



SPI
COATINGS
PROVEN PERFORMANCE • REAL WORLD SOLUTIONS

THEMATIC INSULATION
CORROSION PROTECTION

MOIST METAL GRIP

TECHNICAL DATA SHEET (10/1/20)

DESCRIPTION

MOIST METAL GRIP is a two-part epoxy coating system that has been specifically designed with specific additives to promote adhesion when used on metal. MOIST METAL GRIP was developed to be applied to metal surfaces that cannot be dry enough to use RUST GRIP®. It can be used directly to wet or damp metal surfaces and maintain excellent adhesion to prevent further surface corrosion. It is a water repelling epoxy for use under water or in areas where constant splashing or condensation is a problem. It is resistant to chemicals and solvents, and is designed to be applied directly to concrete, masonry and wood.

TYPICAL USES

- As a one-coating system for metal that is moist or in high humidity.
- As a one-coating system to encapsulate existing rusted surfaces.
- As a one-coating system to protect metal with condensation issues.
- As a one-coating system to line tanks.
- Very good acid and good alkali resistance
- As a primer before ENAMO GRIP or LINING KOTE is applied.

APPLICATION METHODS

MOIST METAL GRIP can be applied to metal, as well as 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 MOIST METAL GRIP.

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 product.

NOTE: As MOIST METAL GRIP can be applied on a 100% WET SURFACE, there is no need to watch for the DeltaT of 5°F (3°C) safe margin above the dew point and surface temperature. However, the cooler the surface and ambient temperatures, the longer the dry and cure time. This must be considered before applying, so consult with the manufacturer.

TEST AND CERTIFICATIONS

1. USDA approved
2. ASTM B117 – Salt spray corrosion test
3. ASTM D1654 – 450 hour evaluation over black steel
4. Marine Approvals for salt water/maritime use
5. US Coast Guard
6. ABS (American Bureau of Shipping)
7. IMO (International Marine Organization)
8. Adhesion: ATEM class 5B – no film pull off
9. UV and Salt Spray Resistance (ASTM 5894): 5,000 hours
10. Potable water and foodstuff (European)
11. Meets requirements of SSPC Paint 42 (min.)

FIELD TEST HAVE PROVEN:

1. The coating has outstanding adhesion
2. The coating is resistant to solvents and chemical splashes
3. The coating is flexible, yet resistant to impact

MINIMUM SPREAD RATES (mil thickness)

All Surfaces – Apply 2-3 applications of MOIST METAL GRIP @ 200 sq ft/gallon; (18 sq mtr/gallon); 8 mils wet/4 mils dry (200 microns wet / 100 dry) each coat. This will leave a total thickness of 8-12 dry mils (200-300 microns dry)

NOTE: Surface and ambient temperatures determine cure-time.

Introduction of heat beneath or over surface will enhance the cure time.

Induction Period: 30 minutes at 70°F (21°C).

SPECIAL NOTE: Induction time can span from 5 minutes to one hour according to whether it is applied to a horizontal or vertical surface, and according to ambient temperatures (see Application Instructions).

PHYSICAL DATA

- ◆ Reacted Solids: By weight 67% / By volume 51%
- ◆ 30-60 MINUTES TO TACK FREE AT 70°F (21°C)
- ◆ Overcoat window is three hours or less at 70°F (21°C)
- ◆ Lead and chromate free
- ◆ Cures by chemical reaction; 3 days to touch, 10 full days to cure in 70°F (21°C)
- ◆ Reacted Weight: 11.15 lbs. per gallon
- ◆ Amine-epoxy
- ◆ Shelf Life: Up to 3 years (unopened) under appropriate storage condition (see SDS)
- ◆ Mix Ratio; 4 part base to 1 part curing agent by volume
- ◆ Reactive VOC - White: 1.32 lbs/gal; 158 grams per liter
- ◆ Tinting: Can be tinted any color with a minimum of 250 gallons
- ◆ Resistant to mild concentrations of solvents, chemicals, acids (pH 5-10)
- ◆ Maximum Surface Temp when applying; 150°F (65°C)
- ◆ Minimum Surface Temp when applying; 48°F (9°C)
- ◆ Maximum Surface Temp after curing; 325°F (163°C)
- ◆ Failure will occur at a constant temperature equal to or greater than 300°F (149°C); consult SPI for intermittent temperatures greater than 325°F (163°C)
- ◆ Viscosity: 90 seconds, #4 ford cup @ 74°F
- ◆ Non-sparking coating film

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 MOIST METAL GRIP 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.

SPI has no control over either the quality of condition of the substrate, or the many factors affecting the use and application of the product. Therefore, SPI does not accept any liability arising from loss, injury, or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

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