



# ENAMO GRIP

## Technical Data Sheet (03/13/09)

### DESCRIPTION

ENAMO GRIP is a two-part aliphatic polyurethane enamel available in clear and colors. It forms a uniquely hard and durable coating film, which demonstrates unsurpassed semi-gloss and color retention, as well as chalk resistance when used in exterior applications. It is resistant to water and humidity, stains, acids, solvents, and chemicals, as well as having tremendous scuff, mar and impact resistance. ENAMO GRIP will self-level to an even and smooth finish.

### TYPICAL USES

- For architectural and maintenance solutions that require the utmost in exterior durability;
- As a topcoat for RUST GRIP® and MOIST METAL GRIP;
- As a floor covering where a tough, long-lasting finish is required.
- Very good alkali resistance and good acid.
- Anywhere a solvent-based UV-resistant topcoat is required.

### APPLICATION METHODS

ENAMO GRIP can be applied to metal, concrete, masonry, wood and other porous surfaces. The application can be by brush, roller, or airless sprayer. For specific instructions on surface preparation, mixing and application, please refer to the SPI's application instructions for ENAMO GRIP.

### MINIMUM SPREAD RATE (mil thickness)

**Porous Surfaces** – Apply 1 application of RUST GRIP® or ENAMO GRIP @ 200 sq ft/gallon (18 sq mtr/gallon); 8 mils wet / 3.92 mils dry (200 microns wet / 98 dry) to absorb into substrate. Apply 2 additional coats of ENAMO GRIP @ 200 sq ft/gallon; 8 mils wet / 3.92 mils dry, each application.

**Non-Porous Surfaces** – First apply RUST GRIP® as a primer; then apply 2 coats of ENAMO GRIP @ 200 sq ft/gallon (18 sq mtr/gallon); 8 mils wet / 3.92 mils dry (200 microns wet / 98 dry), each application.

**Clear Coat Only** – Apply 3 applications of ENAMO GRIP @ 200 sq. ft. per gallon (18 sq. mtr./gallon) ; 8 mils wet / 3.92 mils dry (200 microns wet / 98 dry), each application.

### TESTS AND CERTIFICATIONS

1. USDA Approved
2. Marine Approval for Salt Water/Maritime Uses:
  - US Coast Guard
  - ABS (American Bureau of Shipping)
  - IMO (International Marine Organization)
3. Flame Spread (ASTM E84) Class A Fire Rating
4. Abrasion (ASTM D4060)
5. Resistance to Wind-Driven Rain (ASTM D 6904)
6. Water Vapor Transmission (ASTM E 96)

### PHYSICAL DATA

- ◆ Reacted Solids: White - By weight: 66 % / By volume: 49%
- ◆ Reacted Solids: Clear - By weight: 53% / By volume: 38%
- ◆ 30-60 minutes to tack free at 70F (21C)
- ◆ Overcoat window is three hours or less at 70F (21C)
- ◆ Average Perms: 0.6809
- ◆ Lead-free / Chromate-free
- ◆ Cures by chemical reaction
- ◆ Reacted Weight: White: 11.02 lbs/gallon; Clear: 8.31 lbs/gallon
- ◆ Aliphatic Polyurethane
- ◆ Shelf Life: Up to three years (unopened) under appropriate storage conditions (See MSDS)
- ◆ Reactive VOC - White: 3.84 lbs/gal; 461 grams per liter
- ◆ Reactive VOC - Clear: 4.51 lbs/gal; 540 grams/liter
- ◆ Impact Resistance: (Front) 160 psi / (Back) 100 psi
- ◆ Mix Ratio: 3 parts base to 1 part curing agent by volume
- ◆ Pot-Life: 4-6 hours at 70F (21C), 1 hour at 90F (32C)
- ◆ All colors available with established minimum ordered quantities
- ◆ Maximum Surface Temperature when applying: 150 F (65C)
- ◆ Minimum Surface Temperature when applying: 40F (5C)
- ◆ Maximum Surface Temperature after curing: 300F (149C)
- ◆ Failure will occur at a constant temperature equal to or greater than 325F (163C); consult SPI for intermittent temperatures greater than 325F (163C)

### 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. For more specific safety procedures, please refer to the ENAMO GRIP Material 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).

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.