



ENAMO GRIP 5000

Technical Data Sheet (5/16/14)

DESCRIPTION

ENAMO GRIP 5000 is a two-part aliphatic, polyester/polyurethane enamel available in clear and colors. Already having a urethane backbone, the ENAMO GRIP 5000 formula also contains a "saturated" polyester. This blend forms a uniquely hard and extremely 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 5000 will self-level to an even and smooth finish. It has a high cross-link density which leads to higher chemical resistance and more internal flexibility of the coating film. ENAMO GRIP 5000 represents the optimum chemistry that is light stable (UV resistance) yet still provides outstanding acid and alkali resistance. ENAMO GRIP 5000 is used for applications for pH values between 5-14.

TYPICAL USES

- Outstanding alkali resistance and very good acid resistance.
- For architectural and maintenance solutions.
- Hardwoods, pretreated metals, primed metals and concrete.
- Anywhere an acid and alkali resistant topcoat is required.

APPLICATION METHODS

ENAMO GRIP 5000 can be applied to metal, concrete, masonry, wood and other porous surfaces. The application can be by brush, roller, or airless sprayer. ENAMO GRIP 5000 will reach approximately 80% cure within 72 hours of application with the remaining 20% attained over a period of 12-15 days. Recoating within the initial 72 hours should not require any surface preparation. After 72 hours, the surface should be sanded to improve the profile to improve adhesion. For specific instructions on surface preparation, mixing, and application, please refer to the SPI's application instructions for ENAMO GRIP 5000.

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.

MINIMUM SPREAD RATE (mil thickness)

Porous Surfaces – Apply 1 application of RUST GRIP® or MOIST METAL GRIP @ 200 sq ft/gallon (18 sq mtr/gallon) to prime. Apply 2 additional coats of ENAMO GRIP 5000 @ 200 sq ft/gallon; 8 mils wet / 4.8 mils dry (200 microns wet, 120 dry), each application.

Non-Porous Surfaces – First apply RUST GRIP® as a primer; then apply 1 coat of ENAMO GRIP 5000 @ 200 sq ft/gal. (18 sq mtr/gal.); 8 mils wet (200 microns)/4.8 mils dry (120 microns), as an architectural coating. Apply a 2nd coat of ENAMO GRIP in areas that may have machine or foot traffic, handrails, or anywhere there is consistent wear on the surface.

Clear Coat Only – Apply 3 applications of ENAMO GRIP 5000 @ 200 sq. ft. per gallon (18 sq. mtr./gallon); 8 mils wet / 4.8 mils dry (200 microns wet / 120 dry), each application.

PHYSICAL DATA

- ◆ Reacted Solids: White - By weight: 76 % / By volume: 60%
- ◆ Reacted Solids: Clear – By weight: 68% / By volume: 60%

- ◆ 30-60 minutes to tack free at 70°F (21°C)
- ◆ Overcoat window is three hours or less at 70°F (21°C)
- ◆ Pencil Hardness: 3H
- ◆ Lead-free / Chromate-free
- ◆ Cure for use in 15 days @ 70°F (21°C)
- ◆ Reacted Weight: White: 11.6 lbs/gallon; Clear: 8.62 lbs/gallon
- ◆ Aliphatic Polyester
- ◆ Shelf Life: Up to three years (unopened) under appropriate storage conditions (See MSDS)
- ◆ Reactive VOC – White or Clear: 2.79 lbs/gal; 334 grams per liter
- ◆ Impact Resistance: (Front) 70 psi / (Back) 5 psi
- ◆ Mix Ratio: 2 parts base to 1 part curing agent by volume
- ◆ Pot-Life: 3-4 hours at 70°F (21°C), 1 hour at 90°F (32°C). In hot climates (95°F-35°C and above) pot life can reduce to 1.5 hour. Set pails in ice or ice water to extend pot life.
- ◆ All colors available with established minimum ordered quantities
- ◆ Excellent resistance against gasoline, diesel, and Skydrol
- ◆ Maximum Surface Temperature when applying: 150°F (65°C)
- ◆ Minimum Surface Temperature when applying: 40°F (5°C)
- ◆ Maximum Surface Temperature after curing: 300°F (149°C)
- ◆ Not to be used for total submersion under fluids or water
- ◆ In hot (90°F) temperatures and 85% humidity climates, cut the ENAMO GRIP 3-gallon kit with one quart of MAK solvent (Methyl n-Amyl Ketone) to slow down the flash off and skinning of the surface film.
- ◆ Resistant to animal fats

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 5000 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.

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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.