NanoTech Materials Rust Inhibiting Primer

Rust Inhibiting Primer for Metal

NanoTech Materials Rust Inhibiting Primer is a high-quality, water-based, rust-inhibiting, low-VOC primer that combines rust inhibition and priming in a single step. Its self-cross-linking technology provides low VOC levels with greater corrosion resistance and adhesion properties. After power washing the substrate to clean and remove any scale, the primer can be applied to the dry surface, passivating red-rusted surfaces and providing a corrosion-resistant base for subsequent topcoats. Resists heat, cold, moisture, and weathering. Dries quickly to reduce time before elastomeric coating application.

OUTSTANDING FEATURES:

- Combines rust inhibitor and primer — no need to rinse rust inhibitor between application and priming
- Self-cross-linking technology provides superior corrosion resistance and adhesion
- Single component, no pot life — ready to use
- Low VOC — meets requirements for most air quality restrictive areas
- Resists heat, cold, moisture, and weathering
- Fast drying reduces time before elastomeric coating application
- Labor savings vs. multi-step rust treatment systems
- Meets Requirements for ASTM D6083 Acrylic Elastomeric Roof Coating Standard

USAGE:

Passivate and prime rusted areas prior to coating. Used as a prime coat over metal surfaces, but can also be applied to a wide range of substrates including wood, concrete, masonry, various single-ply membranes, spray polyurethane foam, and most commonly used roof coatings.

SURFACE PREPARATION:

The surface must be clean, dry, and free of loose particles or other foreign matter. Remove rust scale prior to application. Pressure washing is required on metal surfaces showing signs of oxidation. Allow surface to dry completely before applying primer.

APPLICATION:

This product may be brushed, rolled, or sprayed on a clean, dry surface. If sprayed, material should be at least 75°F. Apply a generous amount to rusted areas, ensuring complete coverage. Before applying an additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface, it must be washed and completely dry before application of subsequent coats.

For spray application, use an airless sprayer with:

- 30:1 fluid to air ratio capable pump
- 2½ gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Spray gun: Graco Hydra Mastic or equivalent
- Spray tip: reversible self-cleaning type, orifice size .027” to .039”, fan angle 40° to 50°

APPLICATION PROPERTIES:

Coverage Rate	1 gallon per 200 sq ft (8 wet mils)
Required Thickness	8 wet mils
Dry Time (at 75°F)	2 to 3 hours
Recoat Window	2 to 3 hours
Complete Cure	24 hours

TECHNICAL DATA:

Resin Type	Proprietary acrylic emulsion
Total Solids (by weight)	41% ± 3%
Total Solids (by volume)	41.3%
Weight per Gallon	10.0 lbs/gal ± 0.2
VOC	65 g/liter
Viscosity	800 ± 200 cP
Clean Up	Water
Shelf Life (Unopened)	12 months @ 40–90°F

PACKAGING / SHIPPING INFORMATION:

Container Size	Shipping Class
55 Gallon Drum (208.2 liters)	Class 55
5 Gallon Pail (18.9 liters)	Class 55

ENVIRONMENTAL CONDITIONS:

This product cures by water evaporation only. The product must not be applied when the ambient temperature is below 50°F or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before the product dries. In high humidity conditions, late afternoon applications should be avoided as overnight dew formation on an uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper drying before rain or overnight freezes.

PONDED WATER:

- NanoTech Materials coatings are not warranted to perform under ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual.)

LIMITATIONS:

The surface must be clean and dry. Application is not recommended on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure requires complete evaporation of water. Cool temperatures and high humidity retard cure. Do not leave the product exposed to elements for more than 48 hours to prevent weathering and dirt pickup that will compromise adhesion performance.

EQUIPMENT:
Minimum requirements:
Roller:
- 1¼" nap roller

Spray:
- 30:1 fluid to air ratio capable pump
- 2½ gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose rated to 2× maximum pump pressure
- Hose lining should be compatible with coating and required cleanout materials
- Hose lengths (largest diameter at pump):
  - 3/8" minimum, 6 ft whip
  - 3/8" minimum I.D. up to 75 feet
  - 1/2" minimum I.D. up to 200 feet
  - 3/4" minimum I.D. over 200 feet
- Spray gun: Graco Hydra Mastic or equivalent
- Spray tip: reversible self-cleaning type; orifice size .027" to .039"; fan angle 40° to 50°

Always use components rated for pump pressures.

SAFE PRACTICES:

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use, and handling. Information sources include but are not limited to the SDS and product labels. Additional resources are available at nanotechmaterials.com or by contacting your NanoTech Materials representative directly.