

RUST GUARD

Rust Guard is a metallic-based, moisture-cured polyurethane encapsulating coating that will coat over most surfaces to seal them up against further corrosion, weathering and physical wear. Rust Guard is a three-coats-in-one system that acts as a primer, intermediate and topcoat in one.



DESCRIPTION

Rust Guard is a tough, one-part polyurethane coating that absorbs atmospheric moisture to cure. Rust Guard is loaded with a metallic pigment for strength and is also resistant to chemical solvents and acid splash. Upon curing, Rust Guard provides a protective coating film of superior adhesion and flexibility, and is resistant to abrasion and impact. Rust Guard can be used as a primer or as a one-coating system. It is patented to encapsulate lead-based paints and other toxic materials, including asbestos. Rust Guard can be applied over pressure-washed, dry flash rust and firmly bonded commercial paints. In most cases, a white or near-white blasting is not required.

BENEFITS

- Excellent for minimally prepared surfaces, ie. no sandblasting is required.
- Protects steel, aluminum, concrete, wood, fiberglass, lead-based paints, polyurethane foam, and other coatings.
- Extremely tough, it makes an excellent floor coating.
- Submergible in 100% nitric acid without any effects. Designed to withstand acids, salts and caustics with no loss of strength.
- Rated as a Class A fire coating. In case of fire, Rust Guard will help prevent the spreading of, and will not contribute to burning.
- Certified by the EPA for encapsulation of lead-based paints and asbestos.
- Prevents mold and mildew from forming.
- USDA approved for use in and around food preparation areas.
- 15+ year lifespan on roofing under normal conditions.

USES

- Corrosion and weathering protection. Rust Guard is UV-controlled and is not affected by hostile environments.
- Overcoat rusted areas to stop and control corrosion activities. Rust Guard will seal out any contact with moisture and air or chemical pollutants that breed corrosion activity.
- Used as metal primer before over-coating.
- Prevention of corrosion.
- Protects floors to prevent wear and damage.
- Anti-slip coating when combined with aggregates, for use around high traffic areas.
- Protection from acid splash or pooling. It will not allow acids to penetrate to affect the surface.
- Encapsulate and seal lead-based paints, asbestos, or other hazardous materials.



APPLICATION

Rust Guard can be applied to concrete or masonry substrates. The coating can be applied by spray, brush or roller. For specific instructions on surface preparation, mixing and application always follow the official application instructions.

PHYSICAL DATA

- Solids: By weight 62.2% / By volume 51.4%
- 30-60 MINUTES TO TACK FREE AT 70°F (21°C)
- Overcoat: - 4 hrs but no more than 2 weeks 70°F (21°C)
- 2 hrs but no more than 4 hrs if with Rust Guard
- Lead and chromate free
- Hygroscopic: Cures by absorbing moisture in the air
- Weight: 9.8 lbs. per gallon / 1,1 kg/l
- Moisture-cure Polyurethane
- Shelf Life: Up to 3 years (unopened)
- Coverage: 2,5 - 5 m²/l
- Pail: 20 liters
- One component coating; No curing agent needed
- VOC Level: 400 grams/liter
- Silver-gray in color; not available in colors
- Resistant to most solvents, chemicals and some acids
- Maximum Surface Temperature when applying; 150°F (65°C)
- Minimum Surface Temperature when applying; 50°F (10°C)
- Maximum Surface Temperature after curing; 325°F (163°C)
- Consult MC for intermittent temperatures greater than 325°F (163°C)
- Viscosity: 320 centipoise

TESTS AND CERTIFICATIONS

1. Tensile Strength (6,780 psi / 467 bar after 3 weeks)
2. USDA approved
3. Marine approvals for salt water/maritime user:
 - DNV (Det Norske Veritas)
 - ABS (American Bureau of Shipping)
 - IMO (International Maritime Organization)
 - US Coast Guard
4. Factory Mutual approval
5. E-108-00: Spread of flame on pitched roofs, Class "A"
6. G85: Prohesion over rusted metal
7. Mildew Resistance - excellent (ASTM D3273, 3274)
8. Chemical Resistance (24 hours/12 reagents)
9. Flexibility (Mandrel Bend: ASTM D522) - 1/8"
10. Direct Impact Resistance (ASTM D2794)
11. Adhesion (ASTM D3359, D4541)
12. Water Vapor Transmission (ASTM D1653)
13. Surface Burning Characteristics (E84)
14. Weathering (18.000 hours)
15. Scrub Resistance (ASTM D2486)

