

RUSTGRIP PRODUCT DISCRPTION:

RUSTGRIP® is a one-part polyurethane coating that combines with atmospheric moisture to cure. Upon curing, RUSTGRIP® provides a protective coating of superior adhesion, flexibility and abrasion / impact resistance. It is resistant to chemical solvents and acid splash. Originally designed for metal surfaces, RUSTGRIP® demonstrates excellent adhesion to wood, concrete, fiberglass and many other substrates. RUSTGRIP® is designed for the encapsulation of and adherence to tightly bonded surfaces of lead based and other toxic paints and materials as well as rusted surfaces. This unique ability is accomplished by the curing mechanism of the base polymer. The coating (having a low initial viscosity) wets the rusty surface, then penetrates to the foundation of the rust's origin where curing begins. **RUSTGRIP® actually becomes part of the substrate unlike a surface coating which just bonds on top.** The polymer literally begins to swell, developing an interlocking network between the pores of the surface and the coating. No pot life, no catalyzation, no two-part mixing. RUSTGRIP® is not a sacrificial rust inhibitor such as a zinc enriched primer that will wear out over time but in fact a permanent rust proofing which is why it is a certified (ASTM E1795) Biohazard Encapsulator. RUSTGRIP® has also passed 15,000 hours of salt spray testing which are marine specifications and consequently has achieved DNV certification.

THE DIFFERENCE BETWEEN SURFACE COATING AND RUST GRIP:

A surface coating does not have the special solvent carrier to allow it to enter the pores of a substrate and carry the body of the coating into the pores with it. The surface coating will bite into anything above the pore area and adhere to the surface by attaching to any roughness. This works well in most areas until the surface of the coating is exposed to weathering and other elements over time allowing oxidation and acid rain to enter through its pin holes and begin the migration of corrosion.

RUSTGRIP® is made with special solvent carriers that allow the coating to penetrate into the pores carrying the body of the coating with it. Once the body of the coating is in the pores, it begins to absorb the moisture from the atmosphere and gases itself or does a microscopic swell inside the pores that anchors it into the metal or any other surface. This action does allow the coating to become part of the actual surface which is different than all other industrial coatings. Also, its high molecular weight allows the coating to become extremely tough. Being an aromatic urethane in nature, it is already extremely resistant to acids. Its non-leaving metallic allows an encapsulation of the surface and adds additional toughness and UV control to its surface.

In its design, Rust Grip® will apply over a surface and immediately find the pores of the surface and immediately fill them. Within an hour of application, it will begin its cure cycle. During this cure cycle, it will pull moisture from the air and begin to microscopically swell within the individual pores as it hardens. This process anchors the coating and seals against any possibility of air, moisture, or any minerals attacking the surface causing any further corrosion of any kind.

Uses

- Corrosion and weathering protection. Rust Grip® is UV-controlled and is not affected by hostile environments.
- Overcoat rusted areas to stop and control corrosion activities. Rust Grip® will seal out any contact with moisture and air or chemical pollutants that breed corrosion activity.
- Prime metal before over-coating.
- Prevention of corrosion.
- Protection from acid splash or pooling. It will not allow acids to penetrate to affect the surface.

