

Anticor™ RCP

rust conversion primer – ready-to-use

Typical Uses

Designed as a rust-inhibiting acrylic primer and converter for marine environments, heavy industry, and other rusted or non-ferrous metallic surfaces.

For use under dry or damp conditions on steel structures difficult to prepare with traditional standards. Anticor RCP is specially formulated for ballast tanks, cofferdams and other voids, superstructures and decks as well as general maintenance of all rusted surfaces.

Outstanding Characteristics

The extraordinary wetting, penetrating and converting properties provide a means of reinforcing and neutralizing surface rust – this in turn ensures the adhesion of subsequent coatings.

Anticor RCP provides excellent adhesion to a wide variety of substrates. No surface anchor profiles are required for complete adhesion. The primer is hard, but flexible. It has excellent application characteristics and can be applied using conventional or airless spray equipment, brush or roller.

Top Coatings

Can be over-coated with any marine coating - epoxy, acryl, alkyd, chlorinated rubber, vinyl or polyurethane coatings etc.

Anticor RCP is a surface-tolerant coating with special properties as a repair primer. Applied on rusty steel surfaces, the primer penetrates and reacts chemically with solubilized ferric ions as well as with Fe in the rust layer, forming an extremely stable insoluble complex compound with Fe. The primer may also be applied directly to bare steel and can be applied to most types of primers and existing coating systems. It may also be applied over damp substrates. The surface must be free from water droplets.

Surface Preparation

Remove all thick rust scale, loose rust, dirt, oil, grease and other contaminants from the surface. Use power or hand tools to clean in accordance with SSPC-SP3. Flush the prepared area with plenty of fresh water to reduce salt crystals and contaminants. Flash rust or cleaned brown tightly adhered rust may be present when applying the primer.

The use of high-pressure water cleaning is excellent. Pressure washes at 5000-10000 psi, depending on the surface condition. Water-based detergents can be used. Always flush with fresh water after detergents or other degreasing agents have been used. Do not use inhibitors.

Surface steel profiles

A semi-polished surface is acceptable. If using an abrasive blast (or equivalent) use the finest abrasive grade available and work at an angle of 30–45 degrees.

Anticor RCP will adhere to a near-polished surface. Unlike most coatings, Anticor RCP does not depend on a substrate's "anchoring".

Environmental Conditions

Air temperature 1° C (34° F) and 40° C (104° F)

Steel temperature 1° C (34° F) and 40° C (104° F)

Steel temperature must be at least +1°C (34 F) above dew point.

RH can be up to 95 %.

Application Procedure

Anticor RCP is a stable liquid and needs no stirring before use. The primer is single-component - no mixing required. Do not dilute and never use thinner.

1. Flush equipment with fresh water before use.
2. Work primer well into the surface while wet. It dries quickly, therefore, do not rework after the drying process has started. Stripe coat all welds, rough spots, sharp edges and corners, etc. Apply a wet coat in even, parallel passes. Overlap each pass 50% to avoid bare areas, pinholes and voids.
3. Application of 1 coat of approx. 1-1.5 mil DFT for regular use, 1.5-2 mils DFT for marine/heavy usage is recommended. Allowable range is 1-3 mils DFT. Do not recoat before the coat has dried for at least 1-3 hours. The application of a wet film thickness of 2-3 mils will normally provide 1-1.5 mils DFT (regular)/ 3-4 mils wet = 1.5-2 mils DFT (marine).
4. Repair larger areas with spray. Do not overspray. Work can be interrupted with no deterioration in quality.
5. Touch up random pinholes, voids, small damages or bare areas by brush when the film is dry to handle.
6. Leave 12-24 hours to cure before applying topcoat.