

PROVISIONAL DATASHEET

Typical chemical and physical properties

ADDAPT[®] Anticor RCP is a water-soluble **rust conversion primer** with excellent metal adhesion and anti-corrosion properties designed for protection of steel.

Blend of Acrylic Copolymer, Epoxy Hybrid and Surface-active Components.

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| Appearance | Off-White Milky Liquid |
| Active content | 34.0 – 36.0 % |
| Flash point (open cup) | > 100 °C |
| Density at 25 °C | 1,00 – 1,06 g/cm ³ |
| Viscosity at 25 °C (Brookfield #2 @ 30) | 500 – 1.500 mPa.s |
| pH | 3.0 to 5.0 |
| Solubility Water | 100% |

This information is intended as a guideline only. For specifications please consult the Certificate of Analyses.

Applications and typical treat level recommended

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| Practical | 7 – 10 M ² per Litre, neat |
| Special application | For poorly prepared surfaces, dilute with max. 5% water – followed by a full coat. |
| Application method | Airless Spray. Data: Nozzle tip: 0.016 – 0.018” Fan width: 60 Pressure: 3 – 3.5 kp Brush or Roller in small areas |
| Cleaning | Wash tools immediately after use with fresh water |

Benefits

○ Adsorption

The organic material physically adheres to the (rusty) steel surface thereby blocking access of oxygen and water to both anode and cathode sites.

○ Complexation

Reaction with metal ions in/on the surface. Organic molecules act on anode sites.

After application of ADDAPT[®] Anticor RCP, color changes to turquoise and dries silver grey/black, semi-gloss finish.

Its use is not restricted by the water hardness.

Based on ADDAPT VeoPox™ technology.

ADDAPT[®] Anticor RCP

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| Safety and Handling | Please read Material Safety Data Sheet (MSDS) before handling. |
| Product Specification | This information is available on request through our local representative. |
| Packaging | This information is available on request through our local representative. |

Quality Policy The objective of our quality policy is the continuous fulfillment of the internal and external requirements agreed upon with our partners with regards to everybody's performance.

The Quality System of ADDAPT[®] Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001:2015.

Liabilities *All recommendations for the use of our products, whether given by us in writing, orally, or to be implied from the results of tests carried out by us, are based on the current state of our knowledge. Notwithstanding any such recommendations, buyer or user remains responsible for satisfying himself that the products as supplied by us are suitable for his intended process or purpose. Since we cannot control the application, use or processing of the products, we cannot accept responsibility thereof. Buyer has to ensure that the intended use of the products will not infringe any third party's intellectual property rights. We warrant that our products are free from defects in accordance with, and subject to, our general conditions of sale and supply.*

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ADDAPT[®] Anticor RCP

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 insures 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. 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 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.

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 %.

ADDAPT[®] Anticor RCP

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 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 coat has dried 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 film is dry to handle.
6. Leave 12-24 hours to cure before applying topcoat.