

### Typical chemical and physical properties

ADDAPT<sup>®</sup> Anticor<sup>™</sup> RCP is a water-based **rust conversion primer** with excellent metal adhesion and anti-corrosion properties designed for protection of steel and other metals.

#### Blend of an acrylic resin, epoxy hybrid and surface-active components.

Appearance	Off-white/brownish milky liquid
Active content	37.0 – 40.0 %
Flash point (open cup)	> 100 °C
Density at 25 °C	1.00 – 1.06 g/cm <sup>3</sup>
Viscosity at 25 °C (Brookfield #2, 50 rpm)	700 – 1.200 mPa·s
pH	3.0 – 5.0
Solubility: Water	Soluble

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

### Applications and typical treat level recommended

Practical	7 – 10 m <sup>2</sup> 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<sup>®</sup> Anticor<sup>™</sup> RCP, colour changes to turquoise and dries silver grey/black, semi-gloss finish.

Its use is not restricted by the water hardness.

Based on ADDAPT<sup>®</sup> VeoPox<sup>™</sup> technology.

# ADDAPT<sup>®</sup> Anticor<sup>™</sup> RCP

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

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

The Quality System of ADDAPT<sup>®</sup> Chemicals BV is based on the principles of the NEN-EN-ISO-Standard 9001:2015.

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ADDAPT Chemicals BV  
Speltdijk 1  
NL-5704 RJ Helmond  
The Netherlands  
Tel: + 31 - 492 - 59 75 75  
Fax: + 31 - 492 - 55 29 55  
E-mail: [info@addapt-chem.com](mailto:info@addapt-chem.com)  
Home page: <http://www.addapt-chem.com>

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## 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<sup>™</sup> 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<sup>™</sup> 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 overcoated with any marine coating - epoxy, acryl, alkyd, chlorinated rubber, vinyl or polyurethane coatings etc.

Anticor<sup>™</sup> 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 of 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.

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<sup>™</sup> RCP will adhere to a near polished surface. Unlike most coatings, Anticor<sup>™</sup> 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<sup>™</sup> 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.

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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. The 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.