

SurfaGuard RCS

Rust Converter & Stabilizer

Product Description

A single component, water-based primer applicable on rusted surfaces to convert ferric oxides into passivated and stabilized compounds. **SurfaGuard RCS** is a vinyl/acrylic primer coating formulation that can be applied directly to an iron or iron alloy surface to convert iron oxides (rust) into a protective chemical barrier. It interacts with iron oxides, especially iron(III) oxide, converting them into an adherent black layer that is more resistant to moisture and protects the surface from further corrosion. After **SurfaGuard RCS** application and curing, any acrylic, epoxy or polyurethane top-coating formulation can be applied.

Recommended Use

SurfaGuard RCS is applied on rusted substrates, which are difficult to sandblast or power-tool, such as vessel decks, contaminated painted areas, vehicles, trailers, fences, iron railings, sheet metal and the outside of storage tanks. It may also be used to restore and preserve iron-based items of historical importance. Ideal formulation to eliminate flaking of top coatings, due to rust contamination of the substrate. Stabilizes rusted substrate to inert compounds and prevents the self-catalyzing effect of corrosion development.

Film Thickness per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (µm)	50	120	80
Wet Film Thickness (µm)	100	240	160
Coverage Rate (m ² /L)	10	4.17	6.25

Drying times differentiate in minimum or maximum values. Maintain recommended values during application. Coverage rate is theoretical and does not include any losses.

Properties

Type ▶	Water based Vinyl/ Acrylic Emulsion	Touch Dry Time▶	30min @ 20°C
Components ▶	Single Component	Dry Through Time ▶	2h @ 20°C
Color ▶	White	Full Curing ▶	6h @ 20°C
Thinner/ Cleaning Solvent ▶	Water	Min. Recoat Interval ▶	6h @ 20°C
Mixing Ratio ▶	N/A	Induction Time ▶	N/A
VOC ▶	<69 g/L ¹	Flash Point ▶	>100°C
Solids (%vol.) ▶	65±3	Water Resistance ▶	Excellent

Surface Preparation

All surfaces should be clean, dry and free from oil, grease and other foreign matters or contamination.

Application

The application of **SurfaGuard RCS** can be applied with sprayer, brush or roller. Substrate temperature should be minimum 5°C above the environmental temperature and at least 3°C above air dew point. Good ventilation is required to ensure proper drying.

Paint System

Please contact NanoPhos for more information.

Health and Safety

Read label before use. Safety Data Sheet is available through NanoPhos' website www.NanoPhos.com or upon request by contacting NanoPhos through email: info@NanoPhos.com or by telephone: (+30) 2292069312.

Available Packaging

- 1L Plastic (PP) Container
- 3L Plastic (PP) Container

Notes & Precautions: Storage of closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 5°C to 35°C, for up to 18 months. The Technical Data should be read in conjunction with the Safety Data Sheets. The present edition of this technical datasheet automatically cancels any previous one concerning the same product. For more information please contact NanoPhos: info@NanoPhos.com

¹ VOC (Volatile Organic Compounds): Maximum EU VOC content limit value (Directive 2004/42/CE) of the product in a ready to use condition (category A/i "One-pack performance coatings", Type WB): 140 g/L (2010). Maximum VOC content of this product is 69 g/L.