



# RustCheck™

## Rust Converter and Primer

### 1.01 DESCRIPTION

RustCheck™ is a water based, rust converter combined with a non-pigmented, high quality latex metal primer. The converter segments turn rust into a barrier layer of black non-rusting magnetite. The metal primer acts as a bonding agent for polymer concrete, cementitious materials, oil and water-based epoxy, enamel, acrylic, polyurethane, and urethane coatings. Please use the correct product grade that complies with VOC regulations as per federal, state, county and city regulations/codes at the place of installation of product.

### 1.02 FEATURES

- Easy to Apply
- Can Be Used On Welds
- Eliminates Need to Sand/Water Blast to White Metal
- Protects Against Future Rusting and Prevents New Oxidation
- Stops the Rusting Process Permanently
- Excellent Barrier Coat – Durable and Tough.
- Corrosion Resistance (>500 Hrs. Astm B117 @ 2 Mil Dft. This Equals 1 Gal/100 Sq. Ft. Applied In Two Coats.)
- Reacts with Rust to Create a New Long-Lasting Protected Surface
- Surface Can be Top Coated for Maximum Protection in Harsh Conditions with Solvent Based Or Solvent Free Topcoat.
- Safe, No Solvents, and Low Odors.
- Does Not Evaporate Off the Surface of Metal
- Rarely Requires Reapplication

### 1.03 TYPICAL USES

- Rusted or Partially Rusted Steel and Rebar Surfaces as a Rust Converter and Metal Primer

### 1.04 BENEFITS COMPARED TO PHOSPHORIC ACID TREATMENT

- Non-Polluting, Non-Toxic, Non-Corrosive, Contains no Mineral Acids
- Chemically Converts Rust to Magnetite, Which is Stable and Non-Rusting
- Will not Diminish the Structural Integrity of the Metal Surface
- Compatible with all Types of Paints: Latex, Epoxy, Acrylic, Urethanes, Etc.
- No Shipping Restrictions

### 1.05 TECHNICAL DATA

Water based, nonflammable, nontoxic, non-corrosive, rust converter with high quality latex primer

### 1.06 COLOR

Milky, white liquid

### 1.07 PACKAGING

1 quart (0.94 liter) Bottle  
1 gallon (3.79 liters) Jug  
5 gallon (18.9 liters) Pail

### 1.08 COVERAGE

RustCheck™ covers approximately 1 gallon/300-500 sqft (3.8 liters/28-46 sqm).

### 1.09 PREPARATION

Remove all salt, loose rust, mill scale, dirt, grease, oil, old paint and other deposits. Apply PSI's **EnviroClean™** or PSI's **Solvent 100™** to excess oil and grease according to manufacturer's directions and rinse. A residue free surface is essential before coating application begins. THE SURFACE SHOULD BE A CLEAN TIGHT RUST. When a black color appears, rust conversion has started. If gray areas appear, apply more **RustCheck™** while surface is tacky.

### 1.10 MIXING

Mix well before using. Do not thin.

### 1.11 APPLICATION

1. Shake **RustCheck™** container thoroughly before opening.
2. Measure the estimated amount needed for the job into a clean container. NOTE: **RustCheck™** cannot be returned to the original container due to rust contamination.
3. Use of rubber or latex gloves and eye protection is recommended. Contact will cause temporary skin discoloration that will have to wear off over a short period of time; it is not permanent.
4. For maximum penetration, work **RustCheck™** into rusted surfaces with a synthetic bristle brush. On large areas, with a roller, pump or airless sprayer, apply **RustCheck™** to rusted surface.
5. Overlaying **RustCheck™** over the non-rusting areas will not have a negative effect -- only leaves a clear coating to protect clean area.
6. For best results apply 2 thin coats of 3 wet mils each coat at a rate of 500 sq ft/gallon/coat within 1-2 hours of each other and in a cross direction to previous coat.
7. Allow **RustCheck™** to dry at least 24 hrs. before top coating according to manufacturer's specifications. **RustCheck™** dries to a black matte finish.

### NOT RECOMMENDED AS A FINAL COATING.

### 1.11 DRY TIME

ASTM D 1640 at 3 mils wet film (76 microns)

Set to touch: .....3 minutes  
Cotton free: .....10 minutes  
Dry to touch: .....30 minutes  
Hard dry: .....40 minutes

Scratch hard: .....60 minutes  
 No wash off: .....40 minutes  
 Recoat time: at 77°F (25°C) Brush / Roller... ....15-30 min  
 Top coat time: .....24 hours minimum, up to 30 days  
 Cement or Epoxy Patch repair application: .....1 hour

### 1.13 STORAGE AND SHELF LIFE

Avoid continuous direct sunlight. KEEP FROM FREEZING. Discard after freezing. **RustCheck™** can be stored between 38-105°F (3-41°C) for 12 months.

### 1.14 CLEAN UP

Soap and water for equipment, hands, and clothes. Clean dried spatter with lacquer thinner.

### 1.15 LIMITATIONS

Do Not use acetone or dish washing detergent to clean rusted steel surface. Do not apply onto zinc chromate or phosphates, lead, magnesium, copper powder, graphite or borate pigments. Do not use in direct contact with food or potable water. Refer to the **RustCheck™** (SDS) and label for precautionary information.

**READ SDS PRIOR TO USING PRODUCT.**

**KEEP OUT OF THE REACH OF CHILDREN.**

1.12 PHYSICALS	
VOC (ATSM D 3960)	8 oz per gallon
Non volatiles by volume	23%
Non volatiles by weight	30%
Weight per gallon	9.33 lbs (4.24 kgs)
pH	2.0
Flash point (C Cup ASTM D 56)	>200°F (>93°C)
Viscosity	300 cps
Resists heat aging	up to 270°F (132°C)
UV Resistance (G-23 UV)	1000 hrs - No Fading
Per Coat Thickness at 300 SqFt (25sqm/3.8 l)	
Wet	5.3 mils (134.62μ)
Dry	1.23 mils (31.2μ)
Average Pull Force at Failure	1128 psi (7.65 MPa)

Please read all information in the General & Safety Guidelines, Technical Data Sheets, Guide Specifications and Safety Data Sheets (SDS) before applying material. PSI Products are for "Professional Use Only" and preferably applied by professionals who have prior experience with PSI Products or have undergone training in application of PSI Products. Published technical data and instructions are subject to change without notice. Contact your local PSI representative or visit our website for current technical data, instructions, and project specific recommendations.

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