



POLY-TUFF SYSTEMS
INTERNATIONAL
HIGHWAY DIVISION

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 right product grade that complies with VOC regulations as per federal, state, statutory bodies, county and city regulations/ codes at the place of installation of product.

1.02 USES

- Rusted or partially rusted steel and rebar surfaces as a rust converter & metal primer

1.03 FEATURES

- Stops the rusting process permanently
- Protects against future rusting
- Can be used on welds
- Eliminates need to sand/water blast to white metal

1.04 TECHNICAL DATA

Water based, non flammable, non toxic, non corrosive, rust converter with high quality latex primer.

1.05 COLOR

Milky, off-white to tan liquid

1.06 PACKAGING

- 1 quart (0.94 liter) can
- 1 gallon (3.79 liters) pail
- 5 gallon (18.9 liters) pail

1.07 COVERAGE

RustCheck™ covers approximately 1 gallon/200 sqft (0.2 liters/sqm) or 200 sqft/gallon @ 2.5 mils (63.5 microns) dry film.

1.08 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.

1.09 MIXING

Mix well before using. Do not thin.

1.10 APPLICATION

Brush, roll or spray undiluted **RustCheck™** in a heavy white coat with no surface show through at an approximate rate of 8-10 mils (200-250 microns) wet film thickness, to create optimum dry film thickness of 2.5- 3.5 mils dry film thickness (65 - 90 microns) to cover anchor profile. When a black color appears, rust conversion has started. A second coat of **RustCheck™** may be applied while first coat is still tacky. After 24 hours & dry, apply all topcoats according to manufacturer's specifications.

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 minutes (Spray 10-20 minutes or between set to touch and dry to touch tacky.)
- Top coat time: 24 hours minimum, up to 30 days
- Cement or Epoxy Patch repair application: 1 hour

1.12 PHYSICALS

VOC (ATSM D 3960)	8 oz per gallon
Non volatiles by volume	31%
Non volatiles by weight	35%
Weight per gallon	8.6 lbs (3.91 kg)
pH	3.0
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
Average Pull Force at Failure	1128 psi

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.

NOTE: Not recommended as a final coating.

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 the 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.

LIMITED WARRANTY

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical properties. With preapproval, PSI warrants that its products, when properly installed by a state licensed waterproofing contractor according to PSI guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of 12 months. Seller's sole responsibility shall be to replace that portion of the product which proves to be defective. There are no other warranties by PSI of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. PSI shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. PSI shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. PSI reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

DISCLAIMER

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and PSI makes no claim that these tests or any other tests, accurately represent all environments.

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