



POLY-TUFF SYSTEMS
INTERNATIONAL
HIGHWAY DIVISION

RustCheck™

Rust Converter and Primer

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.

USES:

RustCheck™ is recommended for use on rusted or partially rusted steel and rebar surfaces as a rust converter & metal primer.

FEATURES:

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

TECHNICAL DATA:

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

COVERAGE GUIDE:

1 gallon of **RustCheck™** covers approx. 200 sq.ft @ 2.5 mils dry film.

PREPARATION:

Remove all salt, loose rust, mill scale, dirt, grease, oil, old paint and other deposits. Apply GreenClean or TPS 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.

MIXING:

Mix well before using. Do not thin.

PLACEMENT:

Brush, roll or spray undiluted **RustCheck™** in a heavy white coat with no surface show through at 8-10 mils (200-250 microns) wet film thickness, to create optimum dry film thickness of 2.5 mils - 3.5 mils DFT (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.

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: 2..... 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

CLEAN UP:

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

PACKAGING:

1quart, 1gallon, 5gallon containers

COLOR:

Milky, off-white to tan liquid.

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.
UV Resistance (G-23 UV)	1000 hrs - No Fading
Average Pull Force at Failure	1128 psi

STORAGE:

Avoid continuous direct sunlight.

KEEP FROM FREEZING.

Discard after freezing

SHELF LIFE:

Up to over one year when stored between 38°F – 105°F, (3°C – 41°C.)

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, borate pigments. Do not use in direct contact with food or potable water. Refer to the **RustCheck™** (SDS) and label for precautionary information.

NOTE: Not recommended as a final coating.

IMPORTANT NOTE:

While all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company. It is the user's responsibility to satisfy himself that each product is fit for the purpose for which he intends to use it, that the actual conditions of use are suitable, and that the information relating to each product has not been altered or superseded.

WARRANTY:

Due to the use of this product beyond our control, we assume no liability for damages of any kind, and the user accepts the product "as is" and without warranties, expressed or implied, from either **Poly-Tuff Systems International** or its agents. The suitability of the product for an intended use shall be solely up to the user. Our only obligation shall be to replace or pay for any material proved defective, with our liability limited to the purchase price of materials supplied by us.

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. 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.

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