B-TUFF® RUST CHECK
Rust Converter and Primer

1.01 DESCRIPTION
B-Tuff® Rust Check is a water based, rust converter combined with a non-pigmented, high quality 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
- Can Be Used On Welds
- Corrosion Resistance (>500 Hrs. ASTM B117 @ 2 Mil dft. This Equals 1 gallon/100 sqft. Applied In Two Coats.)
- Does Not Evaporate Off the Surface of Metal
- Easy to Apply
- Eliminates Need to Sand/Water Blast to White Metal
- Excellent Barrier Coat – Durable and Tough.
- Protects Against Future Rusting and Prevents New Oxidation
- Rarely Requires Reapplication
- Reacts with Rust to Create a New Long-Lasting Protected Surface
- Safe, No Solvents, and Low Odors.
- Stops the Rusting Process Permanently
- Surface Can be Top Coated for Maximum Protection in Harsh Conditions with Solvent Based Or Solvent Free Topcoat.

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

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

1.06 COLOR
Milky, white liquid; dries Clear

1.07 PACKAGING
1 quart (0.94 liter) bottle
1 gallon (3.79 liters) jug
5 gallon (18.9 liters) pail

1.08 COVERAGE
B-Tuff® Rust Check 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 B-Tuff® Rust Check while surface is tacky.

1.10 MIXING
Mix well before using. Do not thin.

1.11 APPLICATION
1. Shake B-Tuff® Rust Check container thoroughly before opening.
2. Measure the estimated amount needed for the job into a clean container. NOTE: B-Tuff® Rust Check 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 B-Tuff® Rust Check into rusted surfaces with a synthetic bristle brush. On large areas, with a roller, pump or airless sprayer, apply B-Tuff® Rust Check to rusted surface.
5. Overlaying B-Tuff® Rust Check 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 sqft/gallon/coat within 1-2 hours of each other and in a cross direction to previous coat.
7. Allow B-Tuff® Rust Check to dry at least 24 hrs. before top coating according to manufacturer’s specifications. B-Tuff® Rust Check™ dries to a black matte finish.

NOT RECOMMENDED AS A FINAL COATING.
1.12 DRY TIME
ASTM D 1640 at 3 mils wet film (76 microns)

<table>
<thead>
<tr>
<th>Set to touch:</th>
<th>3 minutes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cotton free:</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Dry to touch:</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Hard dry:</td>
<td>40 minutes</td>
</tr>
<tr>
<td>Scratch hard:</td>
<td>60 minutes</td>
</tr>
<tr>
<td>No wash off:</td>
<td>40 minutes</td>
</tr>
<tr>
<td>Recoat time: at 77°F (25°C) Brush / Roller...</td>
<td>15-30 min</td>
</tr>
<tr>
<td>Top coat time:</td>
<td>24 hours minimum, up to 30 days</td>
</tr>
</tbody>
</table>

Cement or Epoxy Patch repair application: 1 hour

1.13 STORAGE AND SHELF LIFE
Avoid continuous direct sunlight. KEEP FROM FREEZING. Discard after freezing. B-Tuff® Rust Check® 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 apply onto zinc chromate or phosphates, lead, magnesium, copper powder, graphite or borate pigments.
- Do Not use acetone or dish washing detergent to clean rusted steel surface.
- Do not use in direct contact with food or potable water.
- Refer to the B-Tuff® Rust Check® (SDS) and label for precautionary information.

READ SDS PRIOR TO USING PRODUCT. FOR PROFESSIONAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. MADE IN THE USA.

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### PHYSICALS

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOC (ASTM D3960)</td>
<td>8 oz per gallon</td>
</tr>
<tr>
<td>Non volatiles by volume</td>
<td>23%</td>
</tr>
<tr>
<td>Non volatiles by weight</td>
<td>30%</td>
</tr>
<tr>
<td>Weight per gallon</td>
<td>9.33 lbs (4.24 kgs)</td>
</tr>
<tr>
<td>pH</td>
<td>2.0</td>
</tr>
<tr>
<td>Flash point (C Cup ASTM D56)</td>
<td>&gt;200°F (&gt;93°C)</td>
</tr>
<tr>
<td>Viscosity</td>
<td>300 cps</td>
</tr>
<tr>
<td>Resists heat aging</td>
<td>up to 270°F (132°C)</td>
</tr>
<tr>
<td>UV Resistance (G-23 UV)</td>
<td>1000 hrs - No Fading</td>
</tr>
<tr>
<td>Per Coat Thickness at 300 SqFt (25sqm/3.8 l)</td>
<td>Wet 5.3 mils (134.62µ)</td>
</tr>
<tr>
<td></td>
<td>Dry 1.23 mils (31.2µ)</td>
</tr>
<tr>
<td>Average Pull Force at Failure</td>
<td>1128 psi (7.65 MPa)</td>
</tr>
</tbody>
</table>

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.

**LIMITED WARRANTY**

PSI warrants its products to be free of manufacturing defects and that they will meet PSI current published physical and chemical properties. 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 user’s 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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