



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)

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. **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.

PHYSICALS	
VOC (ATSM D3960)	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 D56)	>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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