TECHNICAL DATA SHEET

DESCRIPTION

Super-Krete® Rust Buster™ is a VOC compliant copolymer metal primer that converts rust into a barrier layer of Megnetite, a non-rusting inert substance. This primer acts as a bonding agent for epoxy, oil-based enamel and urethane topcoats.

USES

Partially Rusted Steel Surfaces Aluminum / Copper / Brass Decks & Deck Railings Rebar Structural Steel Pipes

Bridges

ADVANTAGES

Rust Buster bonds with all the major topcoats and it does not leave any white streaks when used. Rust Buster is easy and safe to apply. It is non-toxic, environmentally friendly and VOC compliant.

SURFACE PREPARATION

Remove all salt, loose rust, mill scale, dirt, grease, oil, old paint and other deposits. Apply solvent cleaner 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.

Note: Do NOT use acetone or dishwashing detergent to clean rusted steel surface. When black color appears, rust conversion has started. If gray areas appear apply more Rust Buster while surface is tacky.



APPLICATION

Before use of Rust Buster remove heavy grease, wax, soot and oil deposits. Wire brush all the rust and remove all loose rust, plate rust, mill scale, and flakey paint. A high pressure water blast is best for removing old paint. Use a water-based rust and paint cleaner in the blast water to remove all eye-invisible oil films and chemicals. After the water blast insure the surface is dry before applying Rust Buster. Stir Rust Buster until it is creamy white and uniform in color. Brush roll or spray undiluted Rust Buster in a heavy, white coat with no surface show-through at 8-10 mils wet film thickness. When black color appears, rust is converting and has begun the process. At the green/blue stage, continue brushing for 2 minutes or more and allow to dry for chemical reaction.

Conditions and Limitations

Keep from freezing. Apply at 55° F and rising and below 100° F (7°-37° C) and falling. Test over zinc-based coatings as some galvanizing reject Rust Buster chemistry. Do not apply onto zinc chromate or phosphates, lead, magnesium, copper powder, graphite, or borate pigments. Chromate-treated (pickled) prefabricated steel building cold rolled perlins and gutters are to remain dry until topcoated. Cold rolled steel can require abrading to anchor profile and degrease. Waterborne topcoats subject to tannin staining must be tested 48-60 hours before use. If tannin staining occurs, apply oil-based stain blocker or apply oil-based topcoat. Always prepare a test patch to ensure compatibility with substrate and follow-on coatings.

VISUAL INSPECTION

The correct final appearance is a purple to black surface over rusted areas, and a clear film over old paint. A white topcoat applied after a 24 hour cure will show no bleeding.

Insufficient Application

A gray color indicates need for more Rust Buster to be applied while surface is still tacky.

Improper Application

Brown streaks are an indicator of incomplete conversion due to wet surface or thinned product. Remove Rust Buster, re-clean the area, and re-apply Rust Buster.

Improper Surface Preparation

A speckled discoloration indicates mineral salts or other chemical contamination. Remove Rust Buster, re-clean the area, and re-apply Rust Buster.



5-2100 Rust Buster™

FREQUENTLY ASKED QUESTIONS

Rust converters chemically treat the rust - converting it into an inert compound - which then acts as a barrier layer against future rusting. Therefore when using a rust converter, especially Rust Buster, you are adding a double layer of protection against future rusting before you even topcoat. Rust encapsulators & inhibitors encase existing surface rust, cutting off the oxygen supply that keeps that rust from growing. However, the existing rust is still there lurking under the encapsulating film, ready to continue growing upon any surface damage to the paint film or film failure. Acids used for treating rust are by nature corrosive, and any unreacted acid residue will remain on the surface. This residue frequently interferes with the proper bonding of topcoats and can cause accelerated chalking. Acids, such as phosphoric acid, do work well to remove rust stains from painted surfaces, but are not as effective as rust converters on a rusted surface.

Does Rust Buster convert rust?

Yes, Rust Buster is a water-based rust converter combined with an unpigmented high quality copolymer latex metal primer. The advantages of using Rust Buster include reduced labor costs by not having to mechanically or chemically remove existing rust while at sea, on bridges, or in operational factories; and the environmentally friendly properties of the product makes delivery, storage, use, cleanup and disposal relatively convenient when compared to other metal primers and rust removal methods. Rust Buster is non-flammable, non-corrosive, easy to apply, and cleans up with just soap and water.

Does Rust Buster protect my surfaces?

Yes, Rust Buster converter chemistry is a proprietary technology based on very mild acids combined with an unpigmented, improved metal primer, a copolymer created from styrene butadiene (latex) chemistry. Rust Buster is designed to apply directly to clean tight rust. The first bloom of rust after water blasting is a benefit. The effects of Rust Buster are created by its two principal components:

- Mild acids to arrest rusting and convert existing rust to other compounds
- A chemically advanced copolymer that bonds with both the converted rust and with applied topcoats.

Is Rust Buster paintable?

Yes, Rust Buster remains "open" to mechanical, chemical and electrical bonding with most topcoats for 30 days. Rust Buster is well known as a high quality and consistent product by those who routinely deal with the coating of rusted metal.

Coverage Rate

200 sf / gallon at 2.5 mil dry film thickness.

4.9 square meters per liter.

*For estimating purposes only. The actual surface condition and thickness of rust will dictate the amount of Rust Buster needed.

Spreading Rate

8-10 mils wet film thickness, 200-250 microns, to create optimum dry film thickness of 2.5 mils to 3.5 mils DFT (65 to 90 microns) to cover anchor profile.

Drying Time	(ASTM D 1640)
prvina ilme	(ASIM D 1640)

(3 mils wet film - 76 microns)
Set to touch
Cotton free
Dry to touch
Hard dry
Very hard dry

3 minutes
10 minutes
30 minutes
40 minutes
60 minutes

Recoat Time 77°F, 25°C

Brush/Roller 15-30 minutes Spray 10-20 minutes or between set to tough and dry to touch (tacky). **pH** 3.0

Flash Point (Closed Cup ASTMD 56)

> 200°F > 93°C

Heat Resistance Resists heat and aging up to 270°F

Rejects Rainwater 77°F, 25°C

No wash off 240 minutes

Packaging 1 gallon containers

5 gallon pails with pour spout

1 quart with handle 52 gallon fiber drum

Appearance Milky, off-white to tan liquid

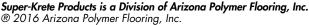
Odor Very Mild

Thinning Do not thin.

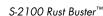
Clean Up Soap and water for equipment,

hands, clothes. Clean dried spatter

with lacquer thinner.



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5-2100 Rust Buster[™]

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VOC (ASTM D 3960) 60 grams per Liter

8 oz. per gallon

Non-volatiles by Volume 31%

Non-volatiles by Weight 35%

Weight per Gallon 8.6 lbs. (3.91 Kg.)

Recommended Topcoat Time

After 24 hours minimum, up to 30 days.

Cathodic Disbondment

Rust Buster to rusted steel and topcoated with – ASTM D4541 Wasser MoistureCure-CR-PW Average Pull Force at Failure 1128 psi.

Shelf Life 12 months when properly stored.

Storage (ASTM D 1849) Resists greater than

1 week at 140°F and up to or over one year between 38°F and 105°F, 3°C and 41°C. Avoid continuous direct sunlight. Keep from freezing,

discard if frozen.

CAUTION

Do not use in direct contact with food or potable water. Keep away from children. Do not take internally. Always use safety gloves, appropriate eye protection, and appropriate OSHA/NIOSH approved respirator in areas with poor ventilation and when exposed to spray mist both indoors and outdoors. If ingested, seek medical attention immediately.

LIMITATIONS:

Super-Krete Products are to be applied only when surface temperatures are above 55°F and rising and not to exceed 100°F. Super-Krete Products are not to be applied when precipitation is expected within 24 hours following completion of application. Do nat allow materials to freeze. Each Super-Krete product acts as an inherent part of a proven system. Super-Krete Products are professional, contractor grade products. Training in the use of these products is available. Consult a Super-Krete Products representative for information and assistance locating approved contractors in your area or for training class dates.

MOISTURE VAPOR EMISSIONS PRECAUTIONS:

All interior concrete floors not poured over an effective moisture vapor retarder are subject to possible moisture vapor transmission that may lead to blistering and failure of the coating system. It is the coating applicator's responsibility to conduct calcium chloride in compliance with ASTM F1869 and relative humidity probe testing to determine if excessive levels of vapor emissions are present before applying any coatings. Arizona Polymer Flooring offers **Super-Krete® Pene-Krete®** for cementitious overlay products and **VaporSolve® Moisture Remediation** systems for resinous floor coatings. Consult our technical service department. Arizona Polymer Flooring and its sales agents will not be responsible for coating failures due to undetected moisture vapor emissions.

WARRANTY:

Arizona Polymer Flooring guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. ARIZONA POLYMER FLOORING MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED, AND ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED. Arizona Polymer Flooring shall not be liable for damages caused by application of its products over concrete with excessive moisture vapor transmission or alkalinity. Arizona Polymer Flooring shall not be liable for any injury incurred in a slip and fall accident. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product.

