

Application Guide

NanoTech Innovation Inc.

3-in-1 Rust Converter, Primer & Sealer

PRODUCTS



INTRODUCTION

NanoTech Innovation's 3-in-1 Rust Converter, Primer and Sealer ("Product") is a water-based product designed to transform rust into a durable anti-corrosion coating and a paintable surface. This instruction document will guide you through the process of applying the rust converter effectively. Please follow these steps carefully to achieve the best results.

MATERIALS NEEDED

Product (Ensure appropriate amount of product is procured. The coverage of the product is typically 325-407 sq ft/gal per coat)
Safety goggles
Gloves
Wire brush (<i>see instructions</i>)
Pressure washer (<i>see instructions</i>)
Clean cloth or rag
Paintbrush, roller or sprayer
Drop cloth or plastic sheeting (to protect the surrounding areas)

PREPARATION

Put on safety goggles and gloves to protect your eyes and skin. Clear the area around the rusted surface and cover any nearby objects with a drop cloth or plastic sheeting to prevent accidental splattering.

SURFACE PREPARATION

1. Remove loose rust, flakes, blisters, dirt, and debris from the rusty surface. If there are any thick rust scales or heavy rust present, use a wire brush or sandpaper to remove them (according to SSPC-SP3). Only conversion of firmly bonded rust will result in durable protection. Oil, grease, unstable old paint, mill scale, form oil, fingerprints and water-soluble stains, salts and chlorides must be removed to allow Product react with rust.
2. Following initial surface preparation, consider using water pressure washing 3,000-3,500 psi (207-241bar) to clean the surface thoroughly. A damp surface is acceptable; however, there should not be any standing water or visible film of water on the surface.

APPLICATION

1. Stir the product thoroughly before use. It is recommended to use the universal metal paint mixer blade/paddle with cordless/corded drills.
2. Apply Product directly to the rusted surface using a brush, roller or sprayer (see "Technical Data Sheet" or "Application Method" for sprayer requirements). Ensure even coverage, and avoid excessive application to prevent drips or runs (see "Technical Data Sheet" for optimum thickness). Two coats of Product are recommended.
3. Product is initial brown. It will start to react with the rust and turn into a black coating. Allow the coating to touch dry (1–2 hours) completely. The complete hard drying of the coating typically takes about 12–24 hours; it may vary depending on temperature and humidity (see "Technical Data Sheet" for details).
4. For long-lasting protection, the cured coating should be top-coated with high-quality middle coat and top-coats. No other primer is required. Most finish paints are compatible will not require any additional primer. For special cases, please contact us.

AVAILABLE SIZES TO ORDER

RustAct™	Can	8.5 Fluid ounce or 250 ml
RustAct™	Can	1 Quart or 946 ml
RustAct™	Can	1 Gallon or 3.78 L
AnarPrime™	Pail	5 Gallons or 18.9 L
AnarPrime™	Drum	55 Gallons or 208 L

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POST APPLICATION AND CLEANUP

- Do not let the coating be exposed to outdoor condition for an extended time (>3 days). Apply the top-coat(s) no later than 3-4 days after rust converter application to ensure the primer coating integrity is not compromised.
- Safely store any leftover rust converter or dispose the remaining and empty containers according to your local regulations.
- Clean the paintbrush or sprayer immediately after use with water.

SAFETY PRECAUTIONS

- Always wear safety goggles and gloves when working with the Product.
- Work in a well-ventilated area or wear a respirator if ventilation is limited.
- Avoid prolonged skin contact with the Product. If contact occurs, wash the affected area thoroughly with soap and water.
- In case of eye contact, rinse immediately with plenty of water and seek medical attention if irritation persists.
- Keep the Product out of reach of children and pets.

APPLICATION CONDITIONS

Product may be applied when surface and air temperature is between 5 °C and 75 °C. Reaction is slower at lower temperatures, and film may surface dry and bubble at higher temperatures. High humidity is beneficial as it slows drying and assists rust transformation. Product should not be applied in conditions of condensing humidity (e.g. fog, dew point), on ice, in rain or in heavy sea (salt) spray atmospheres. Steel surfaces may be damp but not with continuous visible film of water.

TOP COATS

In many applications, it is advisable to apply a topcoat over the Product. Apply an intermediate coat and a topcoat suitable for the expected environmental conditions. Avoid using Product without a topcoat in applications involving continuous immersion in water or fluids. The selection of the topcoat depends on the specific environment in which the coating will be exposed. In cases where there are signs of cratering, pitting, or a heavy surface profile, it is recommended to use two coats of Product, followed by a high-build topcoat with sufficient mil thickness to prevent pin-point corrosion.

METHODS OF APPLICATION

Brush or Roller: For small areas, brush or roller application is suitable. To avoid sags and ridges, it is important to keep coating approximately 10 sq ft at a time. Roll away from the previously coated area and then roll back. Do not pour any unused material back into the original container or dip brushes in the original container. For larger areas, spray application is recommended.

Air Spray: Adjust air pressure to ensure good atomization without excessive over-spray. Maintain a consistent spray distance (6–12 inches) and use a cross-spray pattern for even coverage (see “Technical Data Sheet” for details).

Airless Spray: Air-less equipment with a minimum 3000 psi is required. Use a heavy-duty nozzle with a 0.035" orifice (35 tip size) or larger. Remove the manifold filter and gun filter if clogging occurs. Add up to 15% clean water if necessary to achieve a smooth spray pattern (mix thoroughly before application). see Technical Data Sheet for details.

CONTACTS

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Technical Consultation Service

Our Technical Staff is ready to assist you with any questions. You are invited to take advantage of our extensive experience, and trained field service representatives. Hours of operation are Monday through Friday 9:00 am until 5:00 pm PST.

For safe handling information on this product, consult the Safety Data Sheet (SDS).

Note: This instruction document provides general guidelines for applying the rust converter. For specific application types, please contact us for consultation.