

Application Guide

AnarPrime™ 2-in-1 Rust Primer & Sealer



Introduction:

AnarPrime™ 2-in-1 Rust Primer and Sealer 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:

AnarPrime™ 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, pressure washer or sandpaper

Clean cloth or rag

Paintbrush, roller or sprayer

Drop cloth or plastic sheeting (to protect the surrounding areas)

Preparation:

Ensure you are working in a well-ventilated area or, if working outdoors, choose a non-windy day.

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.

1 Surface Preparation:

1. Remove loose rust flakes, 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 surfaces and chlorides must be removed to allow AnarPrime™ react with rust.
2. If surface contamination is suspected, such as salts or grease, consider using water pressure washing 3,000-3,500 psi (207-241bar) to clean the surface thoroughly. Loose rust, mill scale and oil paint should be removed preferably by power wire-brushing (SSPC-SP3), followed by rinsing with water to remove powder and solubles
3. Ensure the surface is clean and preferably dry before applying the rust converter.
4. After completing the cleaning processes mentioned above, it is recommended to wipe the surface with a clean cloth or rag to remove any remaining dust or residue.

Not for product specifications
Please find the specifications in the technical data sheet

2 Application:

1. Stir the rust converter thoroughly before use. It is recommended to use the universal metal paint mixer blade/paddle with cordless/corded drills
2. Apply AnarPrime™ directly to the rusted surface using a brush, roller or sprayer. Ensure even coverage, and avoid excessive application to prevent drips or runs (see technical data sheet for optimum wet and dry film thickness).
3. AnarPrime™ will start to react with the rust and turn into a black or dark-colored coating. Allow the coating to touch dry (1-2 hours) completely. The complete hard drying of the coating typically takes about 24 hours, but it may vary depending on temperature and humidity.
4. Two coats of AnarPrime™ are recommended. 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 will not require any additional primer. However, light color latex and metal filled paints require a solvent base primer on top of AnarPrime™ coating before finish application. For more information regarding the compatible middle/top coats, please contact us.

3 Post Application and Cleanup:

- After the final coat, let the rust converter cure for at least 24 hours before applying any paint or top-coat. This allows the converter to fully bond with the surface and provide long-lasting protection.

- Do not let the coating be exposed to outdoor condition for an extended time. Apply the middle-coat and top-coat 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 or the recommended cleaning solvent, as specified by the manufacturer.

Safety Precautions

- Always wear safety goggles and gloves when working with the AnarPrime™.
- Work in a well-ventilated area or wear a respirator if ventilation is limited.
- Avoid prolonged skin contact with the AnarPrime™. 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 AnarPrime™ out of reach of children and pets.

Application Conditions

AnarPrime™ *2-in-1* Rust Primer and Sealer 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. AnarPrime™ 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.

Not for product specifications
Please find the specifications in the technical data sheet



Methods of Application

AnarPrime™ can be applied using a brush, roller, or spray. 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. Airless spray equipment is faster and provides better surface penetration, leading to more effective conversion. Air-spray equipment can also be used, but thinning AnarPrime™ with up to 15% water may be necessary for proper spraying. Contact us to consult about the air spray requirements.

Resistance to UV, Moisture and Chemicals

In many applications, it is advisable to apply a topcoat over AnarPrime™. Continuous direct exposure of the coating to UV, water or chemicals can result in whitening, blistering, or flaking of the film. Instead, apply a Polyamide Epoxy middle coat and a topcoat known to be resistant to the expected environmental conditions.

Avoid using AnarPrime™ without a topcoat in applications involving continuous immersion in water or fluids. It is not recommended to use latex topcoats without a suitable barrier coat.

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 AnarPrime™, followed by a high-build topcoat with sufficient mil thickness to prevent pin-point corrosion.

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

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

Available Sizes to order

Container size
1 qt. can (946 ml)
1 gal. can (3,78 L)
5 gal. Pail (18.9 L)



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Company:

NanoTech Innovation Inc. is a Vancouver-based technology company and a leading provider of advanced corrosion mitigation solutions. NanoTech combine expertise in material science and nanotechnology with rich experience in product innovation and operations to manufacture a line of novel plant-based rust converter products.