

Rust Eliminator 32

Product Description

Hernon[®] Rust Eliminator 32 is used for eliminating old rust and preventing new rust on steel parts. Rust is chemically transformed into an inert, non-corrosive coating.

Typical Applications

Rust Eliminator 32 is used on rusted steel when only minimum surface preparation is practical. **Rust Eliminator 32** stops rust, coats surface, and acts as a primer for various covering paints on:

- Duct work, overhead cranes, and booms
- Municipal and highway signposts
- Conveyors, supports, guard rails, fences
- Power plants, heating, and cooling plants
- Storage tanks, truck trailers
- Pipes, valves

Product Benefits

- Easy to use
- Non-flammable, low toxicity
- One component
- Works on damp, rusty metals
- Replaces conventional primers for most industrial finish paints

Typical Properties

| Property | Value |
|-----------------------|-----------------------|
| Resin | Acrylic |
| Appearance | Milky White |
| Specific Gravity | 1.23 |
| Viscosity at 25°C, cP | 225 to 500 |
| Flash Point, °C | None - aqueous medium |

Use and Application of Rust Eliminator 32

1. Surface Preparation

- Remove loose or "flaky" rust. Only firmly bonded rust should remain for effective protection.
- Eliminate oil, old paint, grease, mill scale, fingerprints, water-soluble salts, and chlorides for optimal adhesion of Rust Eliminator 32.

Method:

1. Use power or manual wire brushing to remove loose rust, paint, and mill scale. Follow by rinsing with water to remove debris and residues.

2. For oil, grease, or other contaminants, clean thoroughly before removing loose rust.

Surface Condition:

1. Prepared surfaces should show light rust with some exposed bare metal. Ensure surface is clean and free of contaminants; sanding is not required.

2. Product Preparation:

- Mix thoroughly (shake or mechanically stir).
- Do not dilute; Rust Eliminator 32 is ready-to-use.
- Apply only if the surface temperature is between 50°F (10°C) and 90°F (32°C). Do not apply the product if surface temperatures are below 50°F (10°C).

Application Process:

Brush/Roller:

- Wear gloves and use a synthetic bristle brush or roller to work the product into rusted surfaces for maximum penetration.
- For larger areas, you may use a roller or an airless sprayer.
- Apply a second coat 20–30 minutes after the first, ensuring it is applied perpendicular to the initial layer for complete coverage.
- Allow the product to dry for 48 hours before proceeding to paint.

Spray:

- Use an airless sprayer equipped with a 0.10-0.13 tip at a pressure of 900-1200 psi. Adjust pressure as necessary to ensure an even coating.
- Coverage: One gallon typically covers 200-300 square feet on smooth, non-porous surfaces. Porous or irregular surfaces may require additional product for adequate coverage.

3. Drying and Curing

- After applying, it will turn violet within 60 seconds on lightly rusted steel, transitioning to a satin or flat black within 5 minutes. For heavily rusted steel, the coat develops a purple-black color immediately.
- Uneven color indicates a need for additional coats for maximum protection. The initial coating will dry to a smooth, dark finish within 30 minutes.
- For full rust conversion, apply a second coat. Recoat time is 15-30 minutes. It will dry to a black finish with variable gloss (satin to flat).

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- Allow a 48-hour curing period before applying the final paint coat.
- For maximum long-term protection of iron surfaces, seal the treated area with two coats of high-quality, oil-based paint. No additional primer is required.

4. Clean-Up

- Clean brushes, rollers, trays, and sprayers immediately with cold tap water and detergent to prevent product buildup, as Rust Eliminator 32 is extremely difficult to remove once dry. Use rubbing alcohol or mineral spirits if needed, and flush spray equipment thoroughly with mild detergent and water, followed by freshwater rinsing.
- Keep containers closed after each use to prevent skinning.
- If Rust Eliminator 32 is spilled on clothing, soak garments in cold water and wash out the product before it dries. Avoid using ammonia, strong alkali detergents, or hot water for cleanup.
- For skin cleanup, wash hands and nails with soap and water using a nail brush. Black stains from iron-contaminated Rust Eliminator 32 can be removed with a mixture of 1 part liquid household bleach to 4 parts tap water, followed by washing with soap and water.

5. Removal

- Rust Eliminator 32 is difficult to remove once dry; use strong solvents like paint remover or sanding to remove from equipment and clothes. Mechanical abrasion may be necessary.

6. Hints and Precautions for Use

1. For sandblasted surfaces, apply enough product to cover the profile.
2. Apply two coats for a 4-mil dry film thickness.
3. Avoid sanding after the coating turns black, as this breaks the protective barrier.
4. Prolonged water exposure before full curing may turn the coating white; it will return to black upon drying.

7. Application Conditions

- Temperature should be 50°F (10°C) minimum and rising or 90°F (32°C) maximum and falling.
- High humidity can aid rust conversion but avoid conditions of dew, fog, or heavy salt spray.
- Surfaces should be damp but not visibly wet.

8. Application Equipment Methods

Rust Eliminator 32 may be applied by spray, roller or brush. Roller or brush is suitable for small areas. Avoid sags and ridges and keep wet by coating about a square yard at a time. Roll away from the previously coated area then roll back.

Do not pour unused material back into the original container or dip brushes in original container. NEVER add solvents to Rust Eliminator 32.

Spray applications are recommended for larger areas. Airless spray equipment is faster and provides more effective conversion due to improved surface penetration. Conventional air-spray equipment may be used but **Rust Eliminator 32** may require thinning up to 10% with water for proper spraying.

9. Resistance to Moisture, Solvents, and Chemicals

Rust Eliminator 32 should be top coated for many applications. Continuous exposure of **Rust Eliminator 32** coating to water, solvents or chemicals can cause whitening, blistering or flaking of the latex film.

Rust Eliminator 32 should not be used in applications involving continuous immersion in water or fluids. **Rust Eliminator 32** should be top coated with products known to be resistant to the environment expected. Latex topcoats are not recommended without a suitable barrier coat.

Topcoat selection is dependent upon the environment to which the coating will be subjected. The following guidelines can be used. Topcoats are listed by their relative order of performance.

- Moisture/salt spray—high-build epoxies, coal tar epoxies, catalyzed urethanes, vinyl's, chlorinated rubber.
- Solvent Resistance—catalyzed urethanes, high build epoxies, coal tar epoxies, vinyls.
- Acid Resistance—catalyzed urethanes, vinyl's, coal tar epoxies, high build epoxies.
- Alkali Resistance—catalyzed urethanes, coal tar epoxies, high build epoxies, chlorinated rubber.
- Oxidizing Agent Resistance -- vinyl's, catalyzed urethanes.
- Abrasion -- epoxies, urethanes, alkyds.

Where cratering, pitting or heavy surface profile is evident, use two coats of **Rust Eliminator 32** followed by a high build primer or topcoat with sufficient mil thickness to prevent pin-point corrosion. As with all paint systems, a test patch is recommended. Any reputable painting contractor or coating representative can also assist you.

The following primers should not be applied directly over **Rust Eliminator 32**:

- Zinc dust (zinc rich primers).
- Copper powder (anti-fouling paints).

Industrial primers containing chromate are usually compatible, but a test patch should be completed to insure performance.

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General Information

Safety Data

Rust Eliminator 32 may cause eye irritation and can lead to skin irritation with prolonged exposure. It is harmful if ingested in large amounts.

Precautions:

- Wear rubber gloves and protective eyewear while using this product.
- Eye Contact: If contact occurs, rinse eyes immediately with plenty of low-pressure water. For extensive exposure, seek medical attention.
- Skin Contact: Rinse affected skin with water promptly before the product dries.
- Clothing: Remove and thoroughly wash any heavily contaminated clothing.
- Ingestion: If swallowed, do not induce vomiting; instead, contact a doctor immediately. There is no specific antidote—treat symptoms as they appear.
- Inhalation: Rust Eliminator 32 has a low vapor hazard but avoid inhaling any mist during spraying.

WARNING: Keep this material away from children.

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

Storage

Rust Eliminator 32 should be stored in a cool, dry location in unopened containers at a temperature between 45°F to 85°F (7°C to 29°C) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused material, do not return any material to its original container.

Dispensing Equipment

Hernon® offers a complete line of semi and fully automated dispensing equipment. Contact **Hernon® Sales** for additional information.

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