



TECHNICAL DATA SHEET



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Item #	Package	Size
633877	Aerosol Can	10.25 oz.

DESCRIPTION

Loctite® Extend Rust Neutralizer is a fast drying, milky white latex coating that is applied to rusted metal to stop rust, protect the surface and act as a primer for the finish coat. It converts rust to a neutral surface ready for painting.

RECOMMENDED FOR:

Converting light rust to a paintable surface on metal surfaces such as iron and steel. Use on iron railings, barbeque grills, pipes, valves, storage tanks, ductwork, automobiles, patio furniture, tools, antiques, mailboxes, lawn mowers, bicycles and lamp posts.

LIMITATIONS:

- Treated areas should not be painted over with zinc or copper based paints or primers.
- If using a latex paint as a top coat, an oil-based primer should be used first.
- Application in direct sunlight. If temperature is too hot, film may surface dry and bubble.
- Should not be applied in conditions of condensing humidity (i.e. fog, dew), on ice, in rain or in heavy sea (salt) spray atmospheres
- Steel surfaces may be damp but not wet (i.e. continuous visible film of water)
- Not recommended for use in pure oxygen and/or oxygen rich systems
- Do not sand neutralized surface after coating has turned black. This breaks the barrier and will cause future rust.

FEATURES & BENEFITS:

Feature	Benefits
Dries to produce a tough polymer surface.....	Seals rust and creates a neutral surface that is ready for priming and painting
Extremely effective on mild surface rust.....	Converts surface rust and prevents rust from spreading
Sets in 20 minutes per coat.....	Quick completion of project

DIRECTIONS

Tools Typically Required:

Gloves, 50 and 320 grit sandpaper or wire brush.

Safety Precautions:

Well-ventilated area, rubber or plastic gloves, safety glasses.

Preparation:

May stain skin. Wear gloves. Protect finished surfaces. Remove loose rust, dirt and oil. Sand with coarse sandpaper (50 grit) or wire brush. Some rust must remain to be neutralized. **Caution:** The product may cause rust if applied to a non-rusted surface.

Surface Preparation:

1) Old Steel:

All loose or flaky rust, dirt, oil, paint and all other contaminants must be removed. Only conversion of firmly bonded rust will result in durable protection. Loose rust, mill scale and oil paint should be removed preferably by power wire brushing, followed by rinsing with water to remove powder and solubles. Manual wire brushing, chipping and scraping can also be used.

2) Rust Conversion Time and Appearance:

Two coats of Loctite® Extend Rust Neutralizer are recommended.

On lightly rusted steel (that has been wire brushed), the first coat will start to develop a violet color within 60 seconds. This will become satin to flat black in appearance. The second coat should dry to a satin black appearance.

On heavily rusted steel (that has been wire brushed), the first coat should develop a purple-black color within seconds. The second coat should dry to a black color with gloss varying from flat to satin. The second coat should be applied within 15 to 30 minutes of the first coat.

Directions for Use:

- 1) Ensure material is mixed thoroughly before using. Shake can / bottle before use.
- 2) Remove oil, dirt and grease from surface. Wire brush to remove flaky rust and loose scale. Some surface rust must be present.
- 3) Shake can well before using. Avoid dripping by spraying a thin coat onto rusted surface 8 to 10 inches (20 – 25 cm) away until surface is lightly and evenly coated.
- 4) A black coating should appear within 5 minutes. Uneven color indicates need for additional coats for maximum protection.
- 5) Apply 2 to 3 coats allowing no more than 20 minutes drying time between coats. Final application should dry to a black finish.
- 6) For a smooth finish, sand with 320 grit sandpaper before top coating. Do not sand after top coating. This will break the barrier and will cause future rust.
- 7) Wait at least 24 hours before applying a top coat. If not top coating, protect from moisture and humidity and use a third coat of rust neutralizer 24 hours after applying the second coat.
- 8) Most finish paints will not require any additional primer. However, light color latex and metal filled paints require a solvent based primer on top of Loctite® Extend Rust Neutralizer before finish application.

Resistance to Moisture, Solvents & Chemicals:

Loctite® Extend Rust Neutralizer should be topcoated for many applications. Continuous exposure of Loctite® Extend Rust Neutralizer to water, solvents or chemicals can cause whitening, blistering or flaking of the latex film.

Loctite® Extend Rust Neutralizer should not be used in applications involving continuous immersion in water or fluids. It should be topcoated with products known to be resistant to the expected environment. Latex topcoats are not recommended without a suitable barrier coat.

Clean-up

Uncured rust neutralizer can be removed with rubbing alcohol or mineral spirits. Cured rust neutralizer can be removed with paint stripper or by sanding.

STORAGE AND DISPOSAL

Not damaged by freezing. Store away from flames or direct sunlight. Use an approved hazardous waste facility for disposal.

PRECAUTIONS

DANGER: Extremely flammable. Contains Acetone, dimethyl ether and 2-butoxyethanol. Do not spray near heat, sparks, or open flame. Do not place near source of heat, radiator or in direct sunlight. High temperature may cause container to burst. Do not puncture, incinerate or store above 120°F. Use in a well-ventilated area. Avoid breathing spray, mist or vapor. Avoid contact with eyes and skin. Deliberately concentrating and inhaling the vapor may be harmful or fatal. Do not take internally. If swallowed, do not induce vomiting, call a physician immediately. For eye contact, flush with water for at least 15 minutes. For skin contact, wash thoroughly with soap and water. If inhaled remove to fresh air. If discomfort persists, call a physician.

KEEP OUT OF REACH OF CHILDREN.

WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

The information and recommendations contained herein are based on our research and are believed to be accurate, but no warranty, express or implied, is made or should be inferred. Purchasers should test the products to determine acceptable quality and suitability for their own intended use. Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute a permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

TECHNICAL DATA

Typical Uncured Physical Properties		Typical Application Properties	
<u>Color:</u>	Clear liquid	<u>Application Temperature:</u>	Apply between 50°F (10°C) and 90°F (32°C)
<u>Appearance:</u>	Liquid	<u>Odor:</u>	Mild (use in a well-ventilated area)
<u>Base:</u>	Vinyl acrylic copolymer	<u>Conversion Time:</u>	30 minutes max.
<u>Solvent:</u>	Ketone, ether	<u>Dry Time:</u>	60 minutes max.
<u>Specific Gravity:</u>	0.90	<u>Cure Time:</u>	24 hours
<u>VOC Content:</u>	50.4% (by weight)	<u>Clean Up:</u>	Rubbing alcohol or mineral spirits
<u>pH:</u>	2.5	<u>Number of coats required to prevent rust reoccurring:</u>	Three coats are required. Second application should cure for 24 hours before third coat.
<u>Viscosity:</u>	750 cps		

Typical Cured Performance Properties

<u>Color:</u>	Black	<u>Clean Up:</u>	Paint stripper or sanding
<u>Cured Form:</u>	Tough polymer surface	<u>Water Resistance:</u>	Yes
<u>Service Temperature:</u>	Up to 200°F (93°C)	<u>Chemical Resistance:</u>	Detergents, petroleum and vegetable oils, grease, coolants, hydraulic fluids, alcohol, gas, chlorinated solvents.
<u>Rust Prevention:</u>	Two coats of Rust Neutralizer plus a clear top coat or paint coat OR Three coats of Rust Neutralizer		