



NS1 Rust Buster Rust Converter and Primer

Duram NS1 Rust Buster stops rust in its tracks with its proven corrosion-fighting properties. Scientifically formulated, NS1 Rust Buster is a rust converter and metal primer that chemically reacts with rust and converts it into a stable, solid compound that's ready for further priming and painting.



PRODUCT USES

- Convert rust to a stable compound on a variety of metal surfaces.



COVERAGE

- 12 – 14m² per litre per coat. Applied in a 1 coat application.



COLOURS

- Cream coloured liquid, which turns blue-black when reaction is complete.



ADVANTAGES

- Duram NS1 Rust Buster neutralises the iron oxides that cause rust and then turns the rust into a solid compound.
- Saves time, money and labour.
- Quick and easy to apply.
- Non-toxic.
- The converted rust is ready to be primed and painted with Duram's range of NS metal coatings.
- Compatible with most paints.
- Low water permeability.
- Hard and flexible.
- Resistant to flash rust and chemicals.
- Water-based, so equipment can be cleaned by rinsing it under cold water.



SURFACE PREPARATION

PREP

Weathered metal (rusted):

- Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, salt, algae and grease.
- Remove loose, flaking paint and rust by wire brushing, chipping or sandpapering.
- Clean away sanding dust, grease and dirt with Duram NS2 Galvanized Iron Cleaner according to instructions.
- Rinse thoroughly with water, especially in heavy industrial and marine atmospheres, until a water break-free surface is attained and allow to dry.
- Stir or shake Duram NS1 Rust Buster thoroughly before use.
- Apply one generous coat of NS1 Rust Buster to rusted, dry metal surfaces using a stiff brush as it assists penetration of the

solution into the rust. It is also possible to use a soft brush, roller or airless spray, or by air assisted spray if thinned. Surface will turn blue/black in colour in 2 - 3 hours as the chemical reaction takes place. If NS1 Rust Buster is applied to a non-rusted surface, NS1 Rust Buster will remain clear.

- Do not apply on hot surfaces above 40°C.

PRIME

Weathered metal (rusted):

- Abrade lightly (after 2 - 3 hours).
- For optimal protection against corrosion, apply Duram NS4 Anti-Rust Coating according to instructions before applying the topcoat (especially for humid and coastal environments).

PROTECT

Weathered metal (rusted):

- Decorate and protect metal with Duram NS8 Metal Topcoat or other suitable paints.
- Paints that can be used to overcoat Duram NS1 Rust Buster include alkyds (enamel paints), epoxies, vinyls, nitrocellulose (lacquers), polyurethanes, acrylics and water-based systems.
- NS1 Rust Buster may bleed through the first coat of water-based systems.
- Before overcoating with acrylics and water-based systems, first apply a coat of solvent based Universal Undercoat to prevent bleed through.



CLEANING

- Use water to clean equipment and spills.
- Remove spills with water or methylated spirits immediately.
- The solution will stain concrete if accidentally spilled.

SUPPORTING PRODUCTS



Duram NS2
Galvanized Iron Cleaner



Duram NS4
Anti-rust Coating



Duram NS8
Metal Topcoat

YOU MAY ALSO NEED:

- Scrubbing brush, rags and paper towels
- Wire Brush, sandpaper, steel wool or scraper
- Soft brush/roller/spray
- Masking tape
- Stanley Blade
- Drop sheets
- Screwdriver or paint can opener
- Paint stirrer or flat paddle
- Gloves
- Paint tray
- Good quality paint brush
- Safety goggles
- Universal Undercoat

Additional utensils/products may be required in the preparation of surfaces.



IMPORTANT

- Duram NS1 Rust Buster must be overcoated.
- Do not apply at temperatures below 8°C.
- Not suitable for substrates continually above 60°C.



SAFETY PRECAUTIONS

- **Not for internal consumption or inhalation. If swallowed, perform gastric lavage.**
- **Avoid contact with skin or eyes. In case of accidental contact, flush with water.**
- **If splashed into the eye, rinse with a 1% solution of sodium bicarbonate.**
- **Keep out of reach of children.**

PERFORMANCE

- **Salt spray:** When applied to blast cleaned steel at a dry film thickness of 50 microns above the surface profile NS1 Rust Buster gives excellent barrier properties and shows minimal failure when subjected to 2000 hrs salt spray (ASTM B117).
- **Rust conversion:** Converts surface rust to an iron organic complex in ± 2 hours
- **Flexibility:** 6mm bend (Pass)
- **Hardness:** Falling weight test, 3mm indent (Pass)
- **Scratch resistance:** 2000g
- **Resistance to flash rust:** Excellent
- **Fire resistance:** Passes BS 476, Part 7 with a class 1
- **Chemical resistance:** Resists spillage of strong acids, alkali's, aliphatic solvents, alcohols, petrol, crude oil and diesel. Not resistant to aromatic solvents, animal and vegetable oils.

DURAM NS METAL COATINGS

- NS1 Rust Buster: Stop rust quickly and easily with Duram NS1 Rust Buster, a rust converter and metal primer that neutralises rust leaving metal ready for further priming and painting.
- NS2 Galvanized Iron Cleaner: Clean away grease and dirt with Duram NS2 Galvanized Iron Cleaner. NS2 also etches the metal to assist adhesion.
- NS4 Anti-Rust Coating: Prevent rust with Duram NS4 Anti-Rust Coating, a high-performance treatment that contains Zinc Phosphate, a proven barrier against rust.
- NS5 Metcote Etch Primer: Prime metal with Duram NS5 Metcote Etch Primer, a high adhesion primer that contains acids that etch the metal surface ensuring excellent adhesion.
- NS6 Galvanized Iron Primer: Prime galvanized metal with Duram NS6 Galvanized Iron Primer for maximum adhesion.
- NS7 Heat Resistant Paint: Duram NS7 Heat Resistant Paint withstands 700°C and provides intense heat protection and an exceptionally durable and attractive finish for high heat surfaces such as fireplaces, braais, stoves and chimneys.
- NS8 Metal Topcoat: Decorate and protect metal with Duram NS8 Metal Topcoat. This polyurethane enhanced enamel combines the strength of polyurethanes and the weather resistance of acrylics, for a tough yet beautiful surface.



TECHNICAL DATA

Type	Vinyl Acrylic Copolymer with rust converting agent	Volume solids	30% to 33%
Pack Size	500ml, 1 litre, 5 litre	Service Temperature	0°C to 60°C
No of components	1	Application Temperature	5°C to 40°C
Colour	Cream coloured liquid, which turns blue-black when reaction is complete.	Density	1,2 g/cm ³
Touch drying time	2 to 3 hours	Toxicity	Moderately toxic when wet
Overcoating time	6 to 8 hours depending on climatic conditions	Shelf life	1 year
		Storage	Undercover in cool, dry conditions, max. 40°C

	PREP		PRIME			PROTECT	
	NS1 Rust Converter	NS2 Metal & Galvanized Iron Cleaner	NS4 Rust Preventer	NS5 Metal Primer	NS6 Galvanized Iron Primer	NS7 Heat Resistant Paint	NS8 Metal Topcoat
● Recommended.		●	●	●			●
○ To treat or prevent rust.		●	○		●		●
NEW METAL		●	●	●			●
NEW GALVANIZED IRON		●	○		●		●
WEATHERED METAL	○	●	●				●
WEATHERED GALVANIZED IRON		●	○		●		●
ALUMINIUM AND STAINLESS STEEL				●			●
FIREPLACES, BRAAIS, STOVES & CHIMNEYS		●				●	

Technical details above are provided in good faith. We are an ISO 9001: 2008 registered company and our products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of our products and will willingly replace any product in the unlikely event of a quality related performance failure. Whilst we are confident in guaranteeing the quality of our products, we cannot however accept any liability for performance failure due to the incorrect application of our products. Correct application is critical to the successful performance of our products and as this process falls outside of our control we are unable to cover the application under our product performance warranty. Where there are doubts, it is recommended that the user conduct their own suitability tests before use. To retain sheen and colour consistency of your paint, always make sure that the batch numbers are the same on all paint containers that you purchase.

Updated: November 2016 (this supercedes all previous publications)