



# NS1 Rust Buster

Stop rust in its tracks with the proven corrosion-fighting properties of Duram NS1 Rust Buster. Scientifically formulated, NS1 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.

**Colours:** Cream coloured liquid, which turns blue-black when reaction is complete

### PRODUCT USES

You can use Duram NS1 Rust Buster to:

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

Smart Suggestion: To rust-proof your metal surface, first treat existing rust with NS1 Rust Buster and then prime the surface with Duram NS4 Anti-Rust Coating to form the strongest possible rust barrier

### ADVANTAGES

- It neutralises the iron oxides that cause rust and then turns the rust into a solid compound.
- Saves you 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 superior 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.

### COVERAGE

- Approximately 12 to 14 m<sup>2</sup> per litre.

### SURFACE PREPARATION

- Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, salt, algae and grease. Clean away all loose rust, paint, oil, grease or other contaminates. Make sure the surface is dry.
- In heavy industrial and marine atmospheres, the surfaces must be washed down with fresh water prior to application and allowed to dry.

## APPLICATION

- Stir or shake Duram NS1 Rust Buster thoroughly before use.
- Apply one generous coat of NS1 Rust Buster to rusted, dry metal surface using a stiff brush as it assists penetration of the solution into the rust. It is also possible to use a soft brush, roller and airless spray, and 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 clean surface, NS1 Rust Buster will remain clear.
- Do not apply on hot surfaces above 40°C.

## OVERCOATING

- Abrade lightly (after 2 – 3 hours) before overcoating with one coat of universal undercoat.
- Allow to dry.
- For maximum protection against future corrosion apply an intermediate coat of Duram NS4 Anti-Rust Coating before applying the topcoat (especially for humid and coastal environments).
- Topcoat with Duram NS8 Enamel Topcoat or other suitable paints.
- Paints that can be used to overcoat Duram NS1 Rust Buster include alkyds (enamel paints), epoxies, vinyls, nitrocellulose (lacquers) and polyurethanes. 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 meths immediately.
- The solution will stain concrete if accidentally spilled.
- Stains developed on hands or surfaces can be removed with a 1% solution of sodium hypochlorite (household bleach) diluted 4 times with water.

## IMPORTANT

- S1 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  $\pm$  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 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: Prime metal with Duram NS5 Metcote, 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.
- 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
Pack Size	500ml, 1 litre or 5 litre
No of components	One
Colour	Cream coloured liquid, which turns blue-black when reaction is complete.
Touch drying time	2 to 3 hours
Overcoating time	6 to 8 hours depending on climatic conditions
Volume solids	30% to 33%
Service Temperature	0°C to 60°C
Application Temperature	5°C to 40°C
Density	1,2 g/cm <sup>3</sup>
Toxicity	Moderately toxic when wet
Shelf life	1 year
Storage	Undercover in cool, dry conditions, max. 40°C

*Technical details above are provided in good faith. We are an ISO 9001: 2000 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.*

MANUFACTURED BY: DURAM (PTY) LTD

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