



# Product Information

## NS1 Rust Buster

### **Description:**

NS1 Rust Buster is a rust converter and primer that chemically reacts with iron oxides transforming them into a stable compound which is ready for further priming and painting. The product is a cream coloured liquid which turns blue-black when the reaction is complete.

### **Product Uses:**

Rust converter and primer. For maximum corrosion resistance use a corrosion inhibiting primer such as a zinc phosphate or red oxide.

### **Advantages:**

- Easy to apply, no skilled labour required
- Neutralises corrosion
- Compatible with most paints
- Low cost
- Low water permeability
- Hard and flexible
- Non toxic
- Resistant to flash rust and chemicals
- Water based, so flows easily and equipment can be easily cleaned.

### **Coverage:**

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

### **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 contaminants.
- 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 **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

### **Over-coating:**

- Abrade lightly (after 2 – 3 hours) before overcoating.
- Allow to dry thoroughly (6-8 hours). **This is very important when overcoating with Protecta-kote**
- For maximum protection against future corrosion apply an intermediate coat of zinc phosphate or Red Oxide anticorrosive primer before applying the topcoat (especially for humid and coastal environments).
- Paints that can be used to overcoat **NS1 Rust Buster** include alkyds (enamel paints), epoxies, vinyls, nitrocellulose (lacquers) and polyurethanes (Protectakote & Safekote). 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.



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- Stains developed on the hands or surfaces can be removed with a 1% solution of sodium hypochlorite (household bleach) diluted 4 times with water.

### **Important:**

- 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  $\pm$  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.

### **Technical Data:**

Type	Vinyl Acrylic Copolymer with rust converting agent
Pack Size	500ml
No of components	One
Colour	Cream coloured liquid, turns blue-black when reaction is complete.
Touch drying time	2 to 3 hours
Over-coating 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 36°C
Density	1.2 g/cm <sup>3</sup>
Toxicity	Moderately toxic when wet
Shelf life	2 years
Storage	Undercover in cool, dry conditions, max. 40°C

*Technical details above are provided in good faith. Duram (PTY) Ltd are an ISO 9001: 2000 registered company and their products are manufactured to the highest standards using raw materials of superior quality. Consequently we believe in the quality of the product 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 the product, we cannot however accept any liability for performance failure due to the incorrect application of the product. Correct application is critical to the successful performance of the 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.*

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Last revised September 2014