

# **NS4 Anti-Rust Coating**

Duram NS4 Anti-Rust Coating is a high performance metal primer and rust treatment engineered with anti-corrosive pigments that prevents the development of rust. Suitable for new or weathered metal, NS4 Anti-Rust Coating stops rust that may have already formed and creates a highly effective barrier against the formation of new rust.

**Colours:** Black, Green, Grey, Red Oxide, White

## **PRODUCT USES**

- Primer for a variety of metals.
- Superior anti-rust coating for new or weathered metal.
- Suitable for domestic, industrial and automotive uses, including priming of industrial steel framing, farm implements, tanks, roofs, handrails, window and door frames.

## **ADVANTAGES**

- Superior corrosion resistant formula.
- Easy to use.
- Quick drying and can be handled within an hour.
- Water based – solvent free.
- It has good flow and leveling properties, leaving the surface smooth and ready for paint.
- Good sanding and topcoat intercoat adhesion.
- It has no toxic fumes, so you can safely use it in a confined space.
- Cleaning your tools afterwards is easy – simply use water.
- Non-flammable and environment friendly.

## **COVERAGE**

- 8 - 10m<sup>2</sup> per litre per coat. Applied in a 2 coat application. Coverage will vary depending on the porosity of the surface.
- Recommended wet film thickness of 80 microns per coat giving a dry film thickness of 40 microns per coat.

## **PREP**

Ensure all substrates are thoroughly clean, sound, dry and free from any contaminants such as dirt, mill scale, salt, algae, grease and excess rust.

- New metal:
  - Abrade surface lightly and remove any surface rust or mill scale by sanding, wire brushing, with a chipping hammer, or sandblasting (sandblasting to SA2½ with a 40 to 50 profile gives the best results) to a sound metal.
  - Clean away sanding dust, grease and dirt with Duram NS2 Galvanized Iron Cleaner according to instructions.
  - Rinse thoroughly with water until a water break-free surface is attained and allow to dry.

- New galvanized iron:
  - New galvanized iron is covered with a temporary protective oil which needs to be removed.
  - Clean away grease and dirt with Duram NS2 Galvanized Iron Cleaner according to instructions.
  - Rinse thoroughly with water until a water break-free surface is attained and allow to dry.
- Weathered metal:
  - Remove loose, flaking rust and paint by wire brushing, chipping or sandpapering to a sound metal. Treat inaccessible rust areas with Duram NS1 Rust Buster according to instructions.
  - Clean away sanding dust, grease and dirt with Duram NS2 Galvanized Iron Cleaner according to instructions.
  - Rinse thoroughly with water, especially if metal has been exposed to salty air, until a water break-free surface is attained and allow to dry.
- Weathered galvanized iron:
  - Remove loose, flaking paint and rust by wire brushing, chipping or sandpapering to a sound metal.
  - Clean away sanding dust, grease and dirt with Duram NS2 Galvanized Iron Cleaner according to instructions.
  - Rinse thoroughly with water until a water break-free surface is attained and allow to dry.

## PRIME

- Stir Duram NS4 Anti-Rust Coating well.
- Apply using a brush, roller or spray. For spray application, thin NS4 with water by 10% to 15% and mix well.
- Allow first coat of NS4 Anti-Rust Coating to dry for at least one hour before applying a second coat.
- For best results always apply two coats.
- New metal:
  - Prime with Duram NS5 Metcote Etch Primer according to instructions to promote paint adhesion and allow to dry.
  - Apply Duram NS4 Anti-Rust Coating within 3 days to prevent re-contamination and oxidation.
- New or weathered galvanized iron:
  - Apply Duram NS6 Galvanized Iron Primer for maximum adhesion as soon as possible to avoid re-contamination (within 4 hours for coastal areas and 12 hours in other areas). Allow to dry.
  - Apply Duram NS4 Anti-Rust Coating.
- Weathered metal:
  - Apply Duram NS4 Anti-Rust Coating direct to prepared surface.

## PROTECT

- New or weathered metal or galvanized iron:
  - Allow Duram NS4 Anti-Rust Coating to dry before applying the topcoat (4 hours for an acrylic based topcoat, or 48 hours for a solvent-based topcoat).
  - Decorate and protect metal with Duram NS8 Metal Topcoat, Duram Roofkote or other quality acrylic, enamel or epoxy paints.

## CLEANING

- Hands and equipment are easily cleaned in water while wet. Collect spills with suitable absorbent material.

## IMPORTANT

- Application in areas where surface temperature exceeds 40°C is not recommended.
- Exhibit care when overcoating with compositions containing strong solvents e.g. nitro-cellulose lacquers.
- Full cure of Duram NS4 Anti-Rust Coating should be obtained before overcoating with lacquers.

## SAFETY PRECAUTIONS

- Not for internal consumption.
- Keep out of reach of children.
- Skin or eye contact: If splashed in the eyes or on skin, rinse off immediately with clean warm water.
- Spray application: Areas where spraying takes place should be clean and well ventilated. If necessary use suitable respiratory safety equipment and protective clothing.

**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**

Pack Size	500ml, 1 litre, 5 litre, 20 litre
No of components	1
Drying time	Surface: 1 hour at 25°C Hard: 6 hours at 25°C
Overcoating	48 hours at 25°C for solvent based topcoat 4 hours at 25°C for acrylic topcoat
Volume solids	48% to 52%
Wet film thickness	80 microns per coat
Dry film thickness	40 microns per coat
Service temperature	-10°C to 60 °C
Application temperature	5°C to 40°C
Density	1.31 to 1.38g/cm <sup>3</sup>
Finish	Matt
Toxicity	Non Toxic when dry
Fire Hazard	No
Shelf life	24 months
Storage	Under cover in cool, dry conditions

*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: June 2011 (this supercedes all previous publications)*