

DULUX STEEL PRIMER

TECHNICAL DATA SHEET

Version 2 – 2025 MAY

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

Versatile corrosion resistant steel primer for use on new or lightly rusted iron and mild steel.

PRODUCT USES

- For application to correctly prepared new or lightly rusted iron or mild steel.
- Gives an excellent primed surface for most decorative Undercoats and Top coats.

FEATURES AND BENEFITS

- General-purpose high quality corrosion resistant primer.
- Good adhesion to substrate.
- Suitable for new or hand cleaned rusty surfaces.
- Non-drip, easy brushing with good flow and levelling properties.
- No added lead

PRODUCT INFORMATION

Appearance	Matt to Low Sheen
Colour	Light Grey
Binder Type	Modified Alkyd with zinc phosphate
Density at 23°C	Approx. 1.15
Solids Content	By weight: Approx. 58% By volume: Approx. 40%
Packaged Viscosity	Viscosity at 23°C: Approx. 65 KU
Spreading Rate	8 to 10m ² per litre depending on surface porosity, profile and application method
Recommended DFT per coat	Min. 40µm. Max. 50µm.
Recommended WFT per coat	Min. 100µm. Max. 125µm.
Flash Point	37°C

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APPLICATION INFORMATION

Mixing	Stir until homogeneous with a flat paddle
Application Surface conditions	Surface Temperature between 10 - 35°C Relative Humidity between 10 - 85 % OR 2°C above dew point minimum.
Application methods	Brush, roller and spray Brush application preferred to ensure wetting of the surface
Thinner	Thinning not recommended. Ready for use after thorough stirring. Mineral Turpentine if required for spraying to maximum of 10%. *Note if diluted multiple coats will be required to achieve the required minimum 40µm total dry film thickness.
Drying Time	Touch dry 4 hours at 23°C
Recoating Time	18 hours at 23°C (Recoating times will be extended during cold, wet or humid conditions)
Cleaning of equipment	After use, remove as much product as possible, and then clean immediately with Mineral Turpentine or Dulux Pre-Paint Brush Cleaner/Degreaser .
Substrates	Suitably prepared mild steel and iron.
Precautions	Do not apply during cold (below 10°C) or wet weather. Not designed to withstand natural weathering. Overcoat within one week particularly in a coastal atmosphere. Not suitable for direct application to powdery or friable surfaces whether previously painted or not.
Coats Required	Apply one or two coats Dulux Steel Primer , depending on the severity of the conditions. Two coats are preferred for coastal conditions.
Top Coating	Over-coat primer with one coat of Dulux Universal Undercoat , and finish with two coats of selected Dulux decorative topcoat

SURFACE PREPARATION

Ensure that surfaces are sound and free from contaminants such as rust, mill scale, salt, algae, dust, oil, grease, dirt, and debris. Surfaces must be thoroughly dry.

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SURFACE PREPARATION

NEW SURFACES

Mild Steel and Iron

- Inspect shop-primer thoroughly for damage by installation. Abrade new surfaces lightly and remove rust, mill scale by sanding, scraping or with steel wire brushes back to sound mild steel and iron or sandblast to SA 2½.
Ensure that the sanded areas are dry and free of grease and dust. A solvent wash (rags dipped in lacquer thinner) may be used. Change the rags frequently. Allow drying, OR clean with **Dulux Galvanised Iron Cleaner** according to technical data sheet
- For best paint system performance follow primer with **Dulux Universal Undercoat** before applying the selected finishing coat.

PREVIOUSLY PAINTED SURFACES

Mild Steel and Iron

- Areas showing red rust must be removed back to bare metal by means of wire brushing, sanding, chipping, or mechanical scouring.
- To remove dirt, salts, clean thoroughly with **Dulux Galvanised Iron Cleaner** achieving a water-break free surface.
- Sand enamel surfaces to a matt finish to provide a key and improve adhesion.
- For sound surfaces scrub the area with **Dulux Pre-Paint Sugar Soap**/water solution. Rinse with running water to remove **Dulux Pre-Paint Sugar Soap** residue and other surface contaminants.
- Spot prime exposed mild steel and iron immediately after preparation with **Dulux Steel Primer**.
- Build up spot-primed areas with **Dulux Universal Undercoat** to the same level as the rest of the paintwork.

HEALTH AND SAFETY INFORMATION

Danger. Flammable liquid and vapor. Causes mild skin irritation. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs through prolonged or repeated exposure. (central nervous system (CNS)). Toxic to aquatic life with long lasting effects.

Dulux products contain no added lead. Avoid contact with skin or eyes. Keep out of reach of children. If accidentally swallowed, seek medical advice and show this container to the doctor. Dry sanding, flame cutting, and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding should be used wherever possible.

If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used. Do not empty into drains or watercourses. Ensure good ventilation during application and drying.

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HEALTH AND SAFETY INFORMATION - Continue

Safety and Technical datasheets available on request. Call a POISON CENTRE or doctor/physician if you feel unwell. Dispose of contents and container in accordance with all local, regional, national or international regulations.

To avoid the risk of spillage, always store and transport containers in a secure, upright position.

ADDITIONAL INFORMATION

Packaging	1Lt
Storage Conditions	Store under cool dry conditions above 10°C away from direct sunlight, heat and extreme cold.
Disclaimers	N/A product specific

TDS STD DISCLAIMER

The recommendations contained herein are given in good faith and meant to guide the specifier or user in accordance with good painting practices. They are gained from our tests and experiences and are believed to be accurate and reliable. No warranty/guarantee is implied by the recommendations contained herein since the conditions of use; application method, substrate and cleanliness of the substrate are beyond Dulux control.

Important Note; Technology may change with time, necessitating changes to this Technical Data Sheet (TDS).

It is the responsibility of the user to ensure that the latest TDS is being used for reference. Dulux Technical Data Sheets are available on our website www.dulux.co.za or please contact: Dulux On-Line on 0860 330 111. Email ZA.Helpline@akzonobel.com

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