

DULUX UNIVERSAL UNDERCOAT

TECHNICAL DATA SHEET

Version 5 – 2021 JUNE

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

Intermediate coating for use under decorative topcoats, for interior and exterior use

PRODUCT USES

- May be used on suitably primed substrates such as cement plaster, gypsum plaster, concrete, fibre cement, PVC, galvanised iron, mild steel, iron, composite boarding and wooden surfaces, and other materials used in the construction industry.

FEATURES AND BENEFITS

- Used as an undercoat to improve intercoat adhesion between the primer and decorative topcoats for interior and exterior use.
- As a undercoat on existing solvent based topcoats for overcoating with a water based topcoat or as a undercoat on existing dark coloured water based or solvent based coatings which needs to be finished with a white or light colour decorative finish.
- Easy brushing and good levelling properties to provide a smooth base with excellent sanding properties.
- Used as added film with good filling properties to be incorporated as part of the paint system to improve the paint system performance, finish and protection properties.

PRODUCT INFORMATION

Appearance	Matt
Colour	White
Binder Type	Alkyd
Density at 23°C	Approx. 1.40
Solids Content	By weight: Approx. 61% By volume: Approx. 38%
Packaged Viscosity	Viscosity at 23°C: Approx. 80 KU
Spreading Rate	Approx. 10m ² - 15m ² per litre depending on surface porosity, profile and application method.
Recommended DFT per coat	Min. 25 µm. Max.35 µm
Flash Point	37°C

DULUX UNIVERSAL UNDERCOAT

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 or spray application
Thinner	Thinning not recommended. Ready for use after thorough stirring for brush or roller applications. Mineral Turpentine if required for spraying to maximum of 5 - 10% of product volume.
Drying Time	Touch dry 4 hours at 23°C.
Recoating Time	18 hours at 23°C (Drying 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 Dulux Pre-Paint Brush Cleaner Degreaser or Mineral Turpentine.
Substrates	Suitable for cement plaster, gypsum plaster, concrete, fibre cement, PVC, galvanised iron, mild steel, iron, composite boarding and wooden surfaces provided that appropriate preparation and priming is first carried out.
Precautions:	Do not apply during cold (below 10°C) or wet weather. Not suitable as a primer. Not suitable for direct application to powdery or friable surfaces whether previously painted or not. Not designed to withstand natural weathering. It should be recoated in 2 to 3 days. If left uncoated for extended periods, sanding will be required before application of the topcoat. Not to be used as part of paint systems for roofs.
Coats Required	1 coat but may require a 2 nd coat depending on the application.
Top Coating	After application, the dry, hard film should be lightly sanded to give a smooth finish before over coating with two coats finishing paint. Can be over coated with most Dulux decorative finishes.

DULUX UNIVERSAL UNDERCOAT

SURFACE PREPARATION

Plaster sand should comply with SABS 1090 requirements. Plaster mix must be applied at a minimum thickness of 10mm, curing to a hard and sound finish, free of soft and friable material. MPA strength must comply with SABS 0164-1 (10MPa=2, 6:1 and 5MPa=4:1).

Ensure that surfaces are sound and free from dust, oil, grease, dirt, and debris. Surfaces must be thoroughly dry - no more than 12% moisture content.

Once **Dulux Universal Undercoat** have been applied to the respective prepared and primed substrate and dried out should the hard film be lightly sanded to produce a smooth finish. Remove sanding dust before over coating with supporting Dulux decorative finish.

NEW SURFACES

Cement Plaster (non-friable), Composite Boarding and Fibre Cement

- Fresh cement plaster should be allowed one week drying for every 5mm thickness; and longer in cold or damp weather conditions.
- Spot-prime metal strips and nail heads with **Dulux Rustshield** or **Dulux Steel Primer**.
- Prime with one coat of **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer**.
- For very absorbent surfaces more than one coat **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer** could be required to achieve correct binding and sealing properties.

Gypsum Plaster - Interior

- Newly applied Gypsum Plaster can present variable surface finishes based on the application method, the quality and type of gypsum plaster used. This can present variability in the finish of the applied gypsum in terms of surface hardness, texture and porosity. This may require added attention during priming.
- Ensure the gypsum plaster is sound and non-friable, applied and cured as per the manufacturer's specifications
- After wiping down the gypsum plaster, no chalky powder should remain on the surface.
- If the gypsum is sound, apply a single coat **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer**.
- As gypsum plaster is a very porous surface, absorption of the applied plaster primer may occur. To test for this, wipe a black cloth over the dried applied **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer** to test its integrity. If a white residue is found on the back of the cloth, apply 1 to 2 further coats of the respective **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer** applied, to achieve the correct binding and sealing properties.

DULUX UNIVERSAL UNDERCOAT

SURFACE PREPARATION

NEW SURFACES

Concrete

- Remove any uncured cement, grease, and mould-release agents by high-pressure water blast, or wash with a strong solution of **Dulux Pre-Paint Sugar Soap**.
- Rinse off thoroughly with clean water.
- Prime with one coat **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer**.

Galvanised Iron (new, non-roof sheeting surfaces) and Aluminium

- Remove all traces of temporary protective coating, dirt and grease from the surface with **Dulux Galvanised Iron Cleaner**. Ensure complete removal of **Dulux Galvanised Iron Cleaner** by rinsing with running water. A water-break free surface indicates thorough cleaning - running water should not form droplets. If a water-break free surface was not achieved, repeat the cleaning process.
- Prime immediately after cleaning with two coats **Dulux Rustshield** or prime with one full coat of **Dulux Galvanised Iron Primer** or **Dulux Trade Corrocote 1**

Galvanised Iron (unpainted, weathered non-roof sheeting surfaces)

- Remove all loose rust and white scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal. To remove dirt, salts and zinc corrosion (white rust) clean thoroughly with **Dulux Galvanised Iron Cleaner** achieving a water-break free surface.
- Areas showing red rust must be removed back to bright galvanised iron
- Prime immediately after preparation with two coats **Dulux Rustshield** or spot prime red rust prepared areas with **Dulux Trade Corrocote 1** or **Dulux Galvanised Iron Primer** followed by one full coat of the same primer.

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.
- Prime immediately after preparation with two coats **Dulux Rustshield** or one to two coats **Dulux Steel Primer**, depending on the severity of the conditions. Two coats recommended for coastal conditions.

DULUX UNIVERSAL UNDERCOAT

SURFACE PREPARATION

NEW SURFACES

Wooden Surfaces

- Timber treated with borer- or fire retardant may cause slow drying (consult supplier).
- Treat knots in timber with Knotting Agent.
- Spot prime nail heads with **Dulux Rustshield** or **Dulux Steel Primer**.
- Prime with one coat **Dulux Wood Primer**.
- Special attention must be given to painting the end grain to avoid moisture penetration - apply a second coat after 10 - 20 minutes.

PREVIOUSLY PAINTED SURFACES

- Loose, flaking paint must be completely removed. Hard glossy surface, i.e. enamel surfaces should be sanded to a matt finish to provide a key and improve intercoat adhesion.
- Remove oil, grease dirt or any other contaminants with **Dulux Pre-Paint Sugar Soap** Powder/water solution and allow drying.
- Spot-prime exposed substrate areas with the appropriate primer.
- Build up spot-primed areas with **Dulux Universal Undercoat** to the same level as the rest of the paintwork.
- Sand smooth after overnight drying.

FILLING

Fill all imperfections with the appropriate **Dulux Pre-Paint filler** and spot prime filled areas with **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer** once the crack filler has dried properly. Failure to do this will result in uneven sheen levels between the repaired and normal areas.

HEALTH AND SAFETY INFORMATION

This product contains no added lead. Avoid contact with skin or eyes. Keep out of reach of children. If accidentally swallowed, seek medical advice immediately 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. It is recommended to use suitable protective clothing and equipment. To avoid the risk of spillage, always store and transport containers in a secure upright position. Refer to Material Safety Data Sheet for complete information.

DULUX UNIVERSAL UNDERCOAT

ADDITIONAL INFORMATION

Packaging	1lt, 5Lt
Storage Conditions	Store under cool dry conditions away from direct sunlight, heat and extreme cold.
Disclaimers	Colour swatch references are as accurate as modern printing will allow.

TDS STANDARD 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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