

DULUX TRADE 100 GLOSS ENAMEL

TECHNICAL DATA SHEET

Version 2 – 2020 AUGUST

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

High quality interior or exterior enamel for surfaces where a glossy durable finish is required

PRODUCT USES

- Highly recommended for cement plaster, metal and woodwork. Appropriate primers and undercoats must always be used, particularly on new work.

FEATURES AND BENEFITS

- Extremely durable and hardwearing.
- Colour fade resistant – protection against harsh UV rays.
- Scratch and stain resistant.
- Superb appearance with even gloss finish.

PRODUCT INFORMATION

Appearance	High Gloss
Colour	White and colours from the Dulux Colour System in Pastel Base 7, Medium Base 8, Deep Base 9 and Ultra Deep Base 6.
Binder Type	Long Oil Alkyd
Density at 23°C	Approx. 1.12
Solids Content	By weight: Approx. 65% By volume: Approx. 52%
Packaged Viscosity	Viscosity at 23°C: Approx. 70KU
Spreading Rate	8 -10m ² per litre depending on surface porosity, profile and application method.
Recommended DFT per coat	Min. 45µm. Max. 55µm.
Recommended WFT per coat	Min. 90µm. Max. 110µm
Flash Point	37°C

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 (short-nap mohair or foam), or airless spray.

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APPLICATION INFORMATION

Thinner	Thinning not recommended. Ready for use after thorough stirring.
Drying Time	Surface 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, composite boarding, concrete, fibre cement, PVC, galvanised iron (non-roof sheeting), mild steel & iron and wooden surfaces provided that appropriate preparation and priming is carried out.
Precautions:	Do not apply during cold (below 10°C) or wet weather. Do not apply directly to bare metal surfaces. Not suitable for direct application to powdery or friable surfaces whether previously painted or not. Do not clean surface within 7 days of applying.
Coats Required	Apply two to three finishing coats to new surfaces to achieve a continuous closed film and solid colour.

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, rust oil, grease, dirt, and debris. Surfaces must be thoroughly dry - no more than 12% moisture content.

NEW SURFACES

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

- It is recommended that fresh plaster should be allowed one week drying for every 5mm thickness; and longer in cold or damp weather.
- Spot-prime metal strips and nail heads with appropriate metal primer.
- For very absorbent surfaces more than one coat **Dulux Trade Alkali Resistant Primer** or **Dulux Plaster Primer** could be required to achieve correct binding and sealing properties.
- For best paint system performance follow primer with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** before applying the selected finishing coat.

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SURFACE PREPARATION

NEW SURFACES

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, non-friable, applied and cured as per the manufacturers 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 Trade Alkali Resistant Primer** or **Dulux Plaster Primer**.
- As gypsum plaster is a very porous surface, adsorption of the plaster primer may occur. To test for this, wipe a black cloth over the dried **Dulux Trade Alkali Resistant Primer** or **Dulux Plaster 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 Trade Alkali Resistant Primer** or **Dulux Plaster Primer** applied, to achieve the correct binding and sealing properties.
- For best paint system performance follow primer with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** before applying the selected finishing coat.

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** /water solution. Rinse off thoroughly with clean water and allow drying out.
- For very absorbent surfaces more than one coat **Dulux Trade Alkali Resistant Primer** or **Dulux Plaster Primer** could be required to achieve correct binding and sealing properties.
- For best paint system performance follow primer with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** before applying the selected finishing coat.

Galvanised Iron (non-roof sheeting), Aluminium, all Non-ferrous Metals

- For unpainted but weathered galvanised iron - Remove all loose rust and scale by means of wire brushing, sanding, chipping, or mechanical scouring - down to bright metal.
- Remove all traces of temporary protective coating, dirt, salts, zinc corrosion (white rust) 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.

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SURFACE PREPARATION

NEW SURFACES

Galvanised Iron (non-roof sheeting), Aluminium, all Non-ferrous Metals – (Continued)

- Prime with one to two coats **Dulux Trade Corrocote 1 Metal Etch Primer** or **Dulux Galvanised Iron Primer**, depending on the severity of the conditions. Two coats recommended for coastal conditions.
- For best paint system performance follow primer with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** before applying the selected finishing coat.

PVC Gutters/Downpipes

- Lightly sand surface to improve adhesion.
- Clean and degrease with **Dulux Pre-Paint Brush Cleaner/Degreaser**.
- Rinse thoroughly with water and allow drying.
- Prime with one coat **Dulux Trade Corrocote 1 Metal Etch Primer** or **Dulux Supergrip**.

Mild Steel and Iron

- Inspect shop-primer thoroughly for damage by installation. All rust, scale and dirt must be removed by scraping or with steel wire brushes, and then thoroughly sand with medium grit sandpaper and finish with fine grit sandpaper - down to a bright metal finish. 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.
- Prime with one to two coats **Dulux Trade Steel Primer** or **Dulux Steel Primer**, depending on the severity of the conditions. Two coats recommended for coastal conditions.
- For best paint system performance follow primer with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** before applying the selected finishing coat.

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 Trade Steel Primer** or **Dulux Steel Primer**.
- Prime with one coat **Dulux Wood Primer**. Two coats may be required for very absorbent wood. Special attention must be given to painting the end grain to avoid moisture penetration - apply a second coat after 10 - 20 minutes.
- For best paint system performance follow **Dulux Wood Primer** with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** before applying the selected finishing coat.

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SURFACE PREPARATION

PREVIOUSLY PAINTED SURFACES

Good Condition, not powdery

- Remove any loose and flaking paint back to a sound substrate and firm edges by scraping and sanding.
- Enamel surfaces need to be sanded to a matt finish to aid adhesion. It is always good painting practice to rub down existing surfaces with fine sandpaper to remove nibs and dirt particles. Rubbing down also provides a smooth surface for painting.
- Clean surfaces with **Dulux Pre-Paint Sugar Soap** /water solution to remove all surface contaminants and chalky residue, rinse with clean water to remove all traces of the **Dulux Pre-Paint Sugar Soap** treatment and allow drying out. For exterior application high pressure water jet cleaning can be used as an alternative to the **Dulux Pre-Paint Sugar Soap** treatment.
- Spot prime bare exposed substrates with appropriate primer.
- Build up spot primed areas with **Dulux Trade Universal Undercoat** or **Dulux Universal Undercoat** to the same level as the rest of the paintwork.

Old Paint in Poor Condition

- Completely remove all loose and flaking paint.
- Remove oil, grease dirt or any other contaminants with **Dulux Pre-Paint Sugar Soap**/water solution and allow drying.
- Friable surfaces must be removed and repaired.
- Mould instructions. To kill lichen and algae growth, scrub with one of the following solutions: either 4:1 water/chlorine, or 4:1 water/sodium hypochlorite. Ensure that the areas are completely saturated, and allow the solution to react for a minimum of 4 hours. Rinse the complete wall surface thoroughly with clean water and allow drying.
- Prime all exposed areas with appropriate primer as for new surfaces.
- Chalked surfaces must be thoroughly brushed or prepared with high pressure water cleaning.
- Apply a single coat **Dulux Trade Bonding Liquid** or **Dulux Bonding Liquid**. For very absorbent surfaces two coats may be required. The first coat must be thinned 20% with Mineral Turpentine for penetration.

FILLING

Fill all imperfections with the appropriate **Dulux Pre-Paint filler** and spot prime filled areas with **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.

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HEALTH AND SAFETY INFORMATION

Solvent based paints are flammable.

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.

ADDITIONAL INFORMATION

Packaging	White 5Lt, 20Lt Tint Bases 5Lt, 20Lt
Storage Conditions	Store under cool dry conditions away from direct sunlight, heat and extreme cold.
Disclaimers	Colour references are as accurate as modern printing will allow. Please refer to the in-store stripe cards for an accurate representation of the colour. Among others, the following factors may affect final colour appearance: product sheen and texture, colour and light reflections, application, surface texture and preparation. For best colour and sheen consistency, it is advisable to use containers of the same batch number, to mix different batches together in a large container, or to finish in a corner before starting a new container.
Tinting Protocol	The tint base containers are only filled to levels which are specific for each tint base to allow the calculated volume of colourants to be added in order to achieve the volume indicated on the container after tinting. Tint bases and colourants are unfinished products which should not be used on their own. Only once the prescribed colourant is added to the specific tint base will the finished product comply with the technical features and related information as set out in this Technical Data Sheet.

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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.duluxtrade.co.za or please contact: Dulux On-Line on 0860 330 111. Email ZA.Helpline@akzonobel.com

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