

DULUX PEARLGLO WATER-BASED

TECHNICAL DATA SHEET

Version 6 – 2022 JANUARY

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

Superior, tough water-based non-drip mid-sheen enamel for interior and exterior use.

PRODUCT USES

- Suitable for direct application to fully cured and primed or previously painted plaster, fibre cement or concrete surfaces.
- Also suitable for application to metal and wooden surfaces provided they have been suitably primed.
- Recommended for all walls and ceilings especially where a superior low dirt pick-up finish is required.
- Ideal for cupboards, doors, frames, skirting, and furniture.

FEATURES AND BENEFITS

- Tough water-based satin enamel.
- Block Resistant Technology. APEO free
- Low VOC
- Non-Yellowing, Steam and Grease Resistant
- Superior stain resistance to household stains
- Knock, chip and water resistant.
- Fast drying and low odour – rapid room re-entry.
- Superior exterior durability and UV resistant.
- Direct application to sound, correctly prepared previously painted enamel surfaces.

PRODUCT INFORMATION

Appearance	Mid-sheen
Colour	White, Black and colours from the Dulux Colour System in the Pastel Base 7, Medium Base 8, Deep Base 9 and Ultra Deep Base 6.
Binder Type	Pure Acrylic
Density at 23°C	Approx. 1.25
Solids Content	By weight: Approx. 47% By volume: Approx. 36%
Packaged Viscosity	Viscosity at 23°C: Approx. 100 KU
Spreading Rate	Approx. 8m ² -10m ² per litre depending on surface porosity, profile and application method.
Recommended DFT per coat	Min. 35µm. Max. 45µm.
Recommended WFT per coat	Min. 100µm. Max. 125µm
Flash Point	Non-flammable.
VOC Levels	This product contains maximum 16 g/l for White, Standard Colours and Tint Bases

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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 or airless spray.
Thinner	Thinning not recommended. Ready for use after thorough stirring.
Drying Time	Touch dry 60 minutes at 23°C.
Recoating Time	4 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 water.
Substrates	Suitable for cement plaster, gypsum plaster, concrete, fibre cement, various composite boards, metal 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 substrate without priming. Not suitable for direct application to powdery or friable surfaces whether previously painted or not. Do not clean the surface within 7 days of applying.
Coats Required	Apply two to three finishing coats to new surfaces to achieve a 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), Fibre Cement and Composite Boarding

- 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 best paint system performance prime with one full coat **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer**.
- Rough surfaces may be filled with **Dulux Pre-Paint Smoothover** or **Dulux Trade Fillercoat** to create a smooth base of even porosity.

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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 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, adsorption 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.

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.
- For best paint system performance prime with one full coat **Dulux Plaster Primer** or **Dulux Trade Alkali Resistant Primer**

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**.
- Special attention must be given to painting the end grain to avoid moisture penetration - apply a second coat after 10 - 20 minutes.
- Prime with one coat **Dulux Wood Primer**. Two coats may be required for very absorbent wood. Alternatively, wooden surfaces can be primed with **Dulux Supergrip** to support a water-based paint system.
- For best paint system performance follow **Dulux Wood Primer** with **Dulux Universal Undercoat** before applying the selected finishing coat.

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SURFACE PREPARATION

NEW SURFACES

Galvanised Iron (non-roof surfaces), Aluminium and all non-ferrous metals

- 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 with one to two coats **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 Universal Undercoat** before applying the selected finishing coat.

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 with one to two coats **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 Universal Undercoat** before applying the selected finishing coat.

PVC Gutters/Downpipes

- Sand well to improve adhesion. Ensure surface is clean and dry.
- Prime with one coat **Dulux Supergrip**.

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.
- 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 Sugar Soap** treatment and allow drying out.

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SURFACE PREPARATION

PREVIOUSLY PAINTED SURFACES

Good Condition, not powdery (Continued)

- For exterior application can high pressure water jet cleaning be used as an alternative to the **Dulux Pre-Paint Sugar Soap** treatment.
- Spot prime bare exposed substrates with appropriate primer.
- Enamel surfaces need to be sanded to a matt finish to aid adhesion before commencing with the **Dulux Pre-Paint Sugar Soap** /water solution treatment.
- Apply build-up coats of **Dulux Universal Undercoat** to newly primed areas.

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.
- Chalked surfaces must be thoroughly brushed or prepared with high pressure water cleaning. NOTE: While this product can be used for sealing exterior chalked or slightly friable surfaces, it will not penetrate thick layers of powdery material. **Dulux Bonding Liquid** which is un-pigmented, is preferred.
- 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.

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.

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HEALTH AND SAFETY INFORMATION – (Continued)

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	1lt, 5Lt White, Black and Tint Bases – Pastel Base 7, Medium Base 8, Deep Base 9 and Ultra Deep Base 6
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. 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, or 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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GUARANTEE

Dulux offers a 12-year product guarantee on **Dulux PearlGlo Water-Based** (white and tint bases when tinted with Dulux colourants). **Dulux PearlGlo Water-Based** tinted with non-Dulux colourants is not guaranteed, Dulux has no control over the tinting process or the quality of the colourants used. To register your guarantee, simply call the Dulux Technical Helpline within 30 days of purchase. Simply supply your contact details, the site details, purchase details, batch number and related products used. You will receive a Guarantee Reference Number that you should record and keep in a safe place, together with your purchase slip for future reference. For terms and conditions of the guarantee, please visit www.duluxguarantee.co.za or contact Dulux Technical Helpline on 0860 330 111.

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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