

## DULUX RAINSHIELD

### TECHNICAL DATA SHEET

Version 11 – 2025 JULY

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

### PRODUCT DESCRIPTION

Membrane free, flexible fibre reinforced waterproofing paint for walls, roofs and parapets.

### PRODUCT USES

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Ideal for waterproofing of correctly prepared and primed:

- Parapets and tops of freestanding walls.
- Nail heads.
- Cracked tiles and fibre cement roofs.
- Cement or concrete walls.
- Roof features.
- Flowerpots.

### FEATURES AND BENEFITS

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- One step membrane free application.
- Fibre reinforced - bridges cracks of up to 2.0mm without the need for a waterproofing membrane.
- Water & UV resistant.
- Flexible and crack resistant.
- Long lasting acrylic formulation.
- Can be top coated with most water-based paints.
- Ready for use.

### PRODUCT INFORMATION

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<b>Appearance</b>	Low Sheen
<b>Colour</b>	White and Light Grey
<b>Binder Type</b>	Acrylic Co-polymer
<b>Density at 23°C</b>	Approx. 1.40
<b>Solids Content</b>	By weight: Approx. 66 % By volume: Approx. 52%
<b>Packaged Viscosity</b>	Viscosity at 23°C: Approx. 100kU pp

## DULUX RAINSHIELD

### PRODUCT INFORMATION

	<b>Waterproofing:</b>	<b>Weatherproofing &amp; Crack Bridging:</b>
	<b>Horizontal surfaces (Brush)</b>	<b>Vertical wall surfaces (Medium Pile Roller)</b>
<b>Spreading Rate</b>	2 m <sup>2</sup> - 3 m <sup>2</sup> p/l per coat <i>Approx. per litre depending on surface porosity, profile and application method</i>	3 m <sup>2</sup> - 4 m <sup>2</sup> p/l per coat
<b>Recommended DFT per coat</b>	Min. 200 µm. Max. 300 µm	Min. 150 µm. Max. 200 µm
<b>Recommended WFT per coat</b>	Min. 350 µm. Max. 500 µm	Min. 250 µm. Max. 330 µm
<b>Coat Requirements</b>	<b>3 Coats</b> , apply <b>Dulux Rainshield</b> to the entire horizontal surface “corner to corner application”, over and down onto the vertical wall surface by at least 25 mm achieving a minimum continuous total dry film thickness (DFT) of 600µm microns. To prevent capillary action (water cohesion) <b>Dulux Rainshield</b> must be worked well into the substrate.	<b>2 Coats</b> , corner to corner application, achieving a minimum continuous total dry film thickness (DFT) of 300 µm, to provide the required crack-bridging and weatherproofing properties.
<b>Flash Point</b>	Non-Flammable	

### APPLICATION INFORMATION

Mixing	Stir with a flat paddle until homogeneous.
Application conditions	Surface Temperature between 10 - 35°C Relative Humidity between 10 - 85 % OR 2°C above dew point minimum.
Application methods	Brush or roller. Roller mainly recommended for large flat wall surfaces.
Thinner	Thinning not recommended. Ready for use after thorough stirring.
Drying Time	Touch dry 2 hours at 23°C.
Recoating Time	4 hours at 23°C. Maximum 3 weeks if not left as a topcoat. (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.

## DULUX RAINSHIELD

### APPLICATION INFORMATION

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Substrates	Suitable for cement plaster, concrete, fibre cement, PVC, galvanised iron and all non-ferrous metals, and wooden surfaces provided that appropriate preparation and priming is carried out.
Precautions:	<p>Do not apply during cold (below 10°C) or wet weather.</p> <p>Not suitable as a primer for metal surfaces.</p> <p>Not suitable for direct application to powdery or friable surfaces whether previously painted or not.</p> <p>Not suitable for embedding waterproofing membrane except for the repair of large, structural cracks. The fibres in <b>Dulux Rainshield</b> will create a slightly rippled finish.</p> <p>Product is prone to dirt pick-up when left as a topcoat</p> <p>Not a submersible waterproofing coating.</p>
Coats Required	<p><b>3 Coats</b> for waterproofing flat, horizontal surfaces</p> <p><b>2 Coats</b> for weatherproofing and crack bridging on vertical wall surfaces</p>
Top Coating	Can be over-coated with most premium acrylic-based Dulux decorative finishes.

### SURFACE PREPARATION

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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.

### NEW SURFACES

#### **Cement Plaster Parapets, Wall Tops, Copings and Fibre Cement Roofs**

- Fresh cement plaster should be allowed one week drying for every 5mm thickness; and longer in cold or damp weather.
- Prime with one coat **Dulux Plaster Primer** or **Dulux Trade Plaster Primer** or **Dulux Trade Alkali Resistant Primer**. For very absorbent surfaces more than one coat primer may be required to achieve correct binding and sealing properties.

## DULUX RAINSHIELD

### SURFACE PREPARATION

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#### NEW SURFACES

##### Concrete

- Remove any uncured cement, grease, and mould-release agents by high-pressure water blast, or wash with a strong **Dulux Pre-Paint Sugar Soap** /water solution. Rinse off thoroughly with clean water and allow drying.
- Prime with one coat **Dulux Plaster Primer** or **Dulux Trade Plaster Primer** or **Dulux Trade Alkali Resistant Primer**. For very absorbent surfaces more than one coat primer may be required to achieve correct binding and sealing properties.

##### Galvanised Iron, 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** or **Dulux Trade Corrocote 1 Metal Etch Primer**, depending on the severity of the conditions. Two coats recommended for coastal conditions.

#### PREVIOUSLY PAINTED SURFACES

##### Sound acrylic coatings, not powdery

- Wash down with water, allow drying and apply directly.

##### Sound enamel coatings

- Sand surfaces to a matt finish to aid adhesion remove sanding dust and apply

##### Old Paint in Poor Condition

- Completely remove all loose and flaking paint by most appropriate means, e.g. scraping, coarse sanding, or stripping with a paint stripper.
- Remove oil, grease dirt or any other contaminants with **Dulux Pre-Paint Sugar Soap**/water solution. Rinse with clear water 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 friable surfaces, it will not penetrate thick layers of powdery material. **Dulux Bonding Liquid** or **Dulux Water Based Bonding Liquid** or **Dulux Trade Bonding Liquid** which is un-pigmented is preferred as it has the ability to penetrate further into the surface but need to be over coated within 48 hours.

## DULUX RAINSHIELD

### SURFACE PREPARATION

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#### PREVIOUSLY PAINTED SURFACES

##### Old Paint in Poor Condition – (Continued)

- 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 recommended under new surfaces. For very absorbent surfaces more than one coat primer may be required to achieve correct binding and sealing properties.

##### Powdery/chalky

- Brush down thoroughly or wash with high pressure water.
- **Dulux Bonding Liquid** or **Dulux Water Based Bonding Liquid** or **Dulux Trade Bonding Liquid**. Apply **Dulux Rainshield** within 48 hours.

#### CRACKED SURFACES

**Hair cracks up to -0.2mm** may just be sanded lightly.

- Remove dust and debris.
- Brush **Dulux Rainshield** well into the cracks with an old small brush to fill and bridge the cracks.

**Medium plaster cracks between +0.2mm and -2mm** are to be raked out with a scraper blade.

- Remove dust and debris.
- Treat mould growth as specified above.
- Rinse thoroughly with water and allow drying.
- Brush a generous coat of **Dulux Rainshield** into and over the cracks. Ensure that the cracks are filled with **Dulux Rainshield** and allow to dry.
- Repeat until the cracks are completely filled.

**Cracks larger than 2.0mm**, where a waterproofing membrane is required.

- Prepare and prime the surface as specified under “Surface Preparation”.
- Apply a generous layer of **Dulux Rainshield**.
- Cut membrane to size and lay onto the paint whilst still wet. Press into the **Dulux Rainshield** with a brush to remove any air pockets and to saturate the membrane with the **Dulux Rainshield**. Once dry, apply two further coats of **Dulux Rainshield** to seal off.

## DULUX RAINSHIELD

### FILLING

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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

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**Warning: May cause an allergic skin reaction.**

Dulux paints 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.

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

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Packaging	5lt, 20Lt
Storage Conditions	Store under cool dry conditions away from direct sunlight, heat and extreme cold.
Disclaimers	Colour reference as accurate as modern printing will allow

### TDS STANDARD DISCLAIMER

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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](http://www.dulux.co.za) or please contact Dulux On-Line on 0860 330 111. Email [ZA.Help@akzonobel.com](mailto:ZA.Help@akzonobel.com)

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