

DULUX ROOFGUARD

TECHNICAL DATA SHEET

Version 8 – 2022 NOVEMBER

THIS ISSUE SUPERSEDES ALL PREVIOUS PUBLICATIONS

PRODUCT DESCRIPTION

Superior durable exterior roof coating with Solarflex™ properties.

PRODUCT USES

- **Dulux Roofguard** is for application to suitably primed galvanised iron, fibre cement and cement tiles. Although essentially a roof paint, it can also be applied to other areas such as side cladding, galvanised iron garage doors, gutters, downpipes and garden pots.
- **Dulux Roofguard** can be used with waterproofing mesh membrane to waterproof flashing, roof joins, roof screws, parapet walls and chimney capping*

FEATURES AND BENEFITS

- High quality pure acrylic finish.
- Solarflex™ – Colour Fast and UV resistant*.
- APEO Free – Safe for Rainwater Harvesting*
- Waterproof when used with waterproofing mesh membrane
- Superior Adhesion.
- Sheds Dirt.
- Excellent water resistance.

PRODUCT INFORMATION

Appearance	Mid Sheen
Colour	A range of popular roof shades. Dulux Roofguard cannot be tinted.
Binder Type	Pure Acrylic
Density at 23°C	Approx. 1.27
Solids Content	By weight: Approx. 49%. By volume: Approx. 38%
Packaged Viscosity	Viscosity at 23°C: Approx. 105 KU
Spreading Rate	Approx. 4-5m ² per liter on <u>porous</u> surfaces, depending on surface profile and application method. Approx. 7-8m ² per liter on <u>non-porous</u> surfaces, depending on surface profile and application method.

Applied as a roof paint

Recommended DFT per coat Min. 45µm. Max. 55µm.

Recommended WFT per coat Min. 120µm. Max. 145µm.

Flash Point Non-flammable.

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APPLICATION INFORMATION

Mixing	Stir until homogeneous with a flat paddle.
Application Surface Conditions	Surface Temperature between 10°C - 35°C. Relative Humidity between 10 % – 85 % OR 2°C above dew point minimum.
Application Methods	Brush, roller or airless spray application. For airless spray application, the suggested Airless Spray Tip is 0.017-21 at 150 – 200 bars.
Thinner	Thinning not recommended except on absorbent surfaces where the first coat may be thinned up to 10% with water. Thinning reduces opacity.
Drying Time	Touch dry 60 minutes.
Recoating Time	4 hours (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	All types of cement roof tiles, fibre cement roof tiles and galvanised iron roofs. It can also be applied to other areas such as galvanised iron garage doors, gutters and downpipes and fibre cement garden pots.
Precautions:	Do not apply directly to galvanised iron surfaces. Not designed for application to flat roof surfaces or areas subjected to long term ponding. Not suitable for direct application to powdery or friable surfaces whether previously painted or not. Dulux Roofguard is not recommended for application to Chromadek roof sheeting & Galvanised Iron roof sheeting with insulation board, flat roof surfaces, Clay roof tiles, Slurry coated tiles and slate. Under no circumstances should Dulux Corrocote 3 or another Manufacturer's Water Based Etch Primer be used as a primer for this product on roofs. Exterior durability will depend on choice of colour. <i>*APEO Free – Not for Human or Animal Consumption.</i>
Coats Required	Apply two to three finishing coats to new and previously coated surfaces to achieve a closed film and solid colour. The quantity of paint required can be obtained by measuring the floor area of the house covered by the roof, including overhang. Additional allowance of + 30% must be made for the pitch of the roof, plus 30% for the corrugated profile. Divide the total area by the spreading rate of the paint (8) to give an indication of the paint requirements per coat. Make allowance for thinning of the primer coat.

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SURFACE PREPARATION

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

Galvanised Iron (new, unweathered)

- Heavy fabricator's pre-treatment must be removed 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**, overcoat within 48 hours with 2 coats **Dulux Roofguard**.

Galvanised Iron (unpainted, weathered)

- 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, overcoat within 48 hours with 2 coats **Dulux Roofguard**.

Galvanised Iron in aggressive/coastal conditions

- Remove all loose rust and 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**.
- Prime immediately after preparation with two coats **Dulux Rustshield** or **Dulux Trade Corrocote 1** or **Dulux Galvanised Iron Primer**, overcoat within 48 hours with 2 coats **Dulux Roofguard**.

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.

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SURFACE PREPARATION

NEW SURFACES

Mild Steel and Iron – Continue

- Prime immediately after preparation with two coats **Dulux Rustshield** or one or two coats **Dulux Steel Primer** depending on the severity of the conditions (e.g. apply two coats at the coast).

Fibre Cement and other Cement Surfaces (new)

- To remove dust, debris and chalky residue, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 Bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose and allow drying.
- For sound cement roof tiles; prime with one coat **Dulux Roofguard**, thinned up to 10% with water to aid absorption followed by 2 undiluted coats of **Dulux Roofguard**
- For very porous/slightly friable/chalky cement tiles and all fibre cement tiles; prime with **Dulux Bonding Liquid** or **Dulux Trade Bonding Liquid** and overcoat within 48 hours with 2 coats with **Dulux Roofguard**.

Cement and Fibre Cement Roof Tiles (weathered, unpainted)

- To remove dust, debris and chalky residue from cement roof tiles, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 Bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose.
- Old, weathered fibre cement is porous and may encourage the growth of fungus. Scrub these areas with either of the following solutions: 25% chlorine solution and water or 25% sodium hypochlorite and water solution. Rinse off thoroughly, removing residues of the cleaning solution, and at the same time cleaning off dust and debris from the roof.
- For sound cement roof tiles; prime with one coat **Dulux Roofguard**, thinned up to 10% with water to aid absorption followed by 2 undiluted coats of **Dulux Roofguard**
- For very porous/slightly friable/chalky cement tiles and all fibre cement tiles; prime with **Dulux Bonding Liquid** or **Dulux Trade Bonding Liquid** and overcoat within 48 hours with 2 coats with **Dulux Roofguard**.
Waterproofing. Were required apply at least three coats **Dulux Rainshield** over the primer coat, recommended minimum waterproofing dry film thickness of 1000µm. Overcoat with 2 coats **Dulux Roofguard**.

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SURFACE PREPARATION

PREVIOUSLY PAINTED SURFACES

Galvanised Iron

- Perform adhesion tests on the existing coating to crosscut test ISO 2409-2013 standards. Remove loose roof paint back to a sound surface and/or bare galvanised iron. For Galvanised Iron in poor condition, strip completely.
- Remove all loose red rust and 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.
- For sound surfaces scrub the area with **Dulux Sugar Soap**/water solution. Clean with high pressure water jet to remove **Dulux Sugar Soap** residue and other surface contaminants.
- Prime immediately after preparation with two coats **Dulux Rustshield** or **Dulux Trade Corrocote 1** or **Dulux Galvanised Iron Primer** to all exposed galvanised iron, overcoat within 48 hours with 2 coats with **Dulux Roofguard**.

Cement and Fibre Cement Roof Tiles

- Perform adhesion tests on the existing coating to crosscut test ISO 2409-2013 standards
- To remove dust, debris and chalky residue and loose paint from cement roof tiles, wash the entire roof area using high-pressure washing, using a rotating nozzle at a pressure between 150 and 200 bar. Alternatively, scrub the entire roof area with a bristle brush, using water from a garden hose. Cement and Fibre Cement Roof Tiles in poor condition, strip completely.
- Old, weathered fibre cement is porous and may encourage the growth of fungus. Scrub these areas with either of the following solutions: 25% chlorine solution and water or 25% sodium hypochlorite and water solution. Rinse off thoroughly, removing residues of the cleaning solution, and at the same time cleaning off dust and debris from the roof.
- For sound cement roof tiles; prime with one coat **Dulux Roofguard**, thinned up to 10% with water to aid absorption followed by 2 undiluted coats of **Dulux Roofguard**.
- For very porous/slightly friable/chalky cement tiles and all fibre cement tiles; prime with **Dulux Bonding Liquid** or **Dulux Trade Bonding Liquid** and overcoat within 48 hours with 2 coats **Dulux Roofguard**.
- Waterproofing. Where required apply at least three coats **Dulux Rainshield** over the primer coat, recommended minimum waterproofing dry film thickness of 1000µm. Overcoat with 2 coats **Dulux Roofguard**.

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SURFACE PREPARATION

WATERPROOFER

- To all new, correctly prepared & primed surfaces and /or previously painted surface in
- sound condition with a moisture content below 12%, apply a full coat of **Dulux Roofguard** at 1m² per litre per coat.
- Embed the waterproofing mesh membrane into the still wet **Dulux Roofguard** ensuring full saturation for the membrane, free from bubbles and creases.
- Allow drying and apply a further coat of **Dulux Roofguard** to completely cover the membrane. Apply a further 2 coats of **Dulux Roofguard** to complete the waterproofing.

Precautions

Product not designed as a submersible waterproofer or areas which is continuously exposed to ponding for long periods of time.

The waterproofing mesh membrane overlap should be minimum 100mm

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.

Do not apply to roofs that act as catchments for drinking water.

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	5Lt and 20Lt
Storage Conditions	Store under cool dry conditions away from direct sunlight, heat and extreme cold.
Disclaimers	Colour references are as accurate as printing will allow. Please refer to the in-store stripe cards/ standard card, or on-shelf colour displays for an accurate representation of the colour.

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ADDITIONAL INFORMATION

Disclaimers - Continue

*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.

DULUX PROMISE QUALITY GUARANTEE

Dulux offers a 12-year product guarantee on **Dulux Roofguard** (white and standard colours). **Dulux Roofguard** when tinted is not guaranteed, as Dulux does not offer tint bases in the **Dulux Roofguard** range. **Guarantee excludes the application as a waterproofer.* 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 0860 330 111.

Dulux Promise is a mark of quality and care.

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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