

## NZDU02089 Dulux Weathershield Semi Gloss on Painted Non-Ferrous Metals [Exterior]

### Scope of Works

DULUX Weathershield X10 Semi Gloss is a 100% acrylic self priming paint for exterior use. Its unique MaxiFlex Stretch Technology gives a tough, flexible finish for long life protection from the extremes of weather.

### Substrate and Substrate Preparation

#### Substrate Notes

This is a generic non-ferrous metal substrate. Please see the respective substrate for: steel, galvanised steel, precoated sheet steel. Other specialty metal substrates may also not be covered by this substrate.

#### ALUMINIUM & ALLOYS

Aluminium and its alloys rapidly oxidise on exposure, forming a chemically inert, protective layer that protects the metal from further corrosion.

Aluminium and its alloys may be extremely smooth or contaminated with greases, oils and foreign matter leading to poor paint adhesion and reduced lifetime. Careful cleaning and thorough abrasion of the surface must be carried out prior to painting to ensure maximum coating performance.

#### ANODISED ALUMINIUM

Anodising is an electro-chemical process which physically alters the surface of the metal to produce a very smooth, tough, dense, invisible oxide layer on the surface. The aluminium surface is 'passivated' and sealed and therefore unable to bond with any organic coating, including powder coatings unless proper surface preparation is carried out to ensure adequate adhesion of the applied finish.

#### COPPER

Copper metal has a dull brown metallic lustre but will oxidise to the familiar chalky green patina often seen on copper domes on heritage buildings. This green patina must be completely removed prior to painting.

#### BRASS

Brass is an alloy (blend) of copper and zinc. Brass can be polished to a bright, shiny, lustrous metallic dark gold appearance but is prone to tarnishing (surface corrosion), particularly on contact with skin, and therefore should not be handled with bare hands. Brass is very smooth and may be coated with oils leading to poor paint adhesion and reduced lifetime. Careful cleaning and thorough abrasion of the surface must be carried out prior to painting to ensure maximum coating performance.

#### BRONZE

Bronze is an alloy (blend) of copper and tin and has a shiny, lustrous brown metallic appearance that is prone to tarnishing (surface corrosion) to a dusty green patina with time. Bronze is generally quite smooth and may be contaminated with oils leading to poor paint adhesion and reduced lifetime. Careful cleaning and thorough abrasion of the surface must be carried out prior to painting to ensure maximum coating performance.

#### Substrate Preparation Notes

##### ASSESS SUITABILITY

Inspect to determine the degree of deterioration of existing coatings. Identification of the existing coating is also very helpful in determining the repaint system. Check coating adhesion using the cross-cut adhesion test, carried out in various locations.

##### CLEAN SURFACE

Degrease surface with an alkaline detergent, such as Dulux Prep Wash, and rinse with fresh potable water until free of residue. Repeat until the surface is clean. Alternatively, the surface can be cleaned by water blasting.

##### ABRADE SURFACE

Abrade surface to remove gloss and chalkiness, to achieve a smooth, even, sound surface and to provide a good key for the new coating system. Ensure all dust is removed. Complete removal of heavy chalky buildup may require wire brush or power tool cleaning back to sound paint layers before sanding. Feather edges of the surround sound paint. Ensure all dust is removed prior to continuing.

##### PRIME

Apply a suitable primer to any bare metal areas as soon as possible, to reduce the risk of corrosion.

##### ADDITIONAL NOTES

- The existing coating must be sound and firmly adherent to the substrate. Cross-hatch adhesion testing must be carried out prior to applying this coating system.
- The existing painted surface can be solvent sensitive. The nominated primer should therefore be applied to a "test area" prior to work commencing to ensure that the new coatings will not adversely affect the old coatings. If 'frying' or 'wrinkling' occurs then an alternative system will need to be employed.

##### INDUSTRIAL

##### ASSESS SUITABILITY

Inspect to determine the degree of deterioration of existing coatings. Identification of the existing coating is also very helpful in determining the repaint system. Check coating adhesion using the cross-cut adhesion test, carried out in various locations. Refer to relevant sections of AS 1580.408.4

#### CLEAN SURFACE

Degrease surface with an alkaline detergent, such as Dulux Prep Wash, and rinse with fresh potable water until free of residue. Repeat until the surface is clean. Refer to relevant sections of AS1627.1.

#### ABRADE SURFACE

Abrade surface to remove gloss and chalkiness, to achieve a smooth, even, sound surface and to provide a good key for the new coating system. Ensure all dust is removed. Complete removal of coatings that failed the adhesion test may require wire brush or power tool cleaning back to sound paint layers before sanding. Feather edges of the surround sound paint. Ensure all dust is removed prior to continuing. Refer to relevant sections of AS1627.2.

#### PRIME

Apply a suitable primer to any bare metal areas as soon as possible, to reduce the risk of corrosion.

#### Coating System Summary

- 1st Coat Dulux PREP WASH
- Spot Primer Dulux 1 Step Prep Water Based Primer Sealer Undercoat
- 2nd Coat Dulux Weathershield Semi Gloss
- 3rd Coat Dulux Weathershield Semi Gloss

#### Coating System

##### 1st Coat — Dulux PREP WASH

Coat Type <b>1st Coat</b>	Datasheet <b>NZDU00398 Dulux PREP WASH</b>
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Read the full Datasheet details at [Dulux PREP WASH](#)

#### Application Methods



**Brush**

**Broom Garden sprayer**

	Min	Max	Recommended
Theoretical Spread Rate (m <sup>2</sup> /L)	<b>6</b>	<b>12</b>	
Recoat Time **	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>

Meets ECNZ V.O.C. Requirements?

**Not Applicable**

#### Coating Application Details

Apply by broom or brush. Or by garden sprayer.

1. Add one part Dulux Prep Wash concentrate to one part water in a clean plastic bucket and mix well.
2. Test on a small inconspicuous area at recommended dilution to determine effectiveness and strength required.
3. Apply diluted Dulux Prep Wash solution to walls/roof/trim with a broom/brush or garden sprayer. Leave the solution on the surface until mould and mildew stains disappear or soften (approximately 10 minutes), avoiding allowing the solution to dry out. Scrub vigorously.
4. Rinse off the surface with water using a high pressure or garden hose and allow surface to dry. Surface may be slippery while wet (roof). Stubborn stains may require longer time, more vigorous scrubbing, or additional treatment. Severely stained surfaces may need a power washer, or treatment with undiluted Dulux Prep Wash concentrate.

SDS Number <b>000000022880</b>	SDS Link <a href="#">View SDS Link</a>
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##### Spot Primer — Dulux 1 Step Prep Water Based Primer Sealer Undercoat

Coat Type <b>Spot Primer</b>	Datasheet <b>NZDU00432 Dulux 1 Step Prep Water Based Primer Sealer Undercoat</b>
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Read the full Datasheet details at [Dulux 1 Step Prep Water Based Primer Sealer Undercoat](#)

Application Methods



	Min	Max	Recommended
Theoretical Spread Rate (m²/L)			14
Wet Film Per Coat (microns)			71
Dry Film Per Coat (microns)			31
Recoat Time **	2 Hours		

V.O.C. Level  
< 40g/L untinted

Meets ECNZ V.O.C. Requirements?  
**Not Applicable**

Coating Application Details

Brush, roller, conventional or airless spray.

ROLLER: Using a medium nap roller apply a full even coat direct from the container and finish by light parallel strokes with a dry roller.

Stir contents thoroughly before and during use.

AIRLESS/CONVENTIONAL SPRAY: Suitable for application by all standard spray equipment. If necessary thin with up to 100ml per litre of water to aid atomisation.

BRUSH: Wet brushes with water prior to use to avoid clogging. Apply a full even coat direct from the container.

When painting exterior surfaces, ensure topcoat is applied no more than one week after application.

SDS Number  
**DLXNZLEN002997**

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**2nd Coat — Dulux Weathershield Semi Gloss**

Coat Type  
**2nd Coat**

Datasheet  
**NZDU00242 Dulux Weathershield Semi Gloss**

Read the full Datasheet details at [Dulux Weathershield Semi Gloss](#)

Application Methods



	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	16	16	16
Wet Film Per Coat (microns)	63	63	63
Dry Film Per Coat (microns)	25	25	25
Recoat Time **	2 Hours	Indefinite	

V.O.C. Level  
< 60 g/L untinted

Meets ECNZ V.O.C. Requirements?  
**Yes**

Total Volatile Organic Content (TVOC) values are calculated in accordance to the stated methodology within Green Star Technical Manuals. The TVOC content is theoretically calculated as the sum total of the known VOC values of the product's raw material components. These materials include the base paint plus additional low VOC tinters required for non-factory packaged colours.

#### Coating Application Details

Brush, roller, conventional and airless spray. Stir contents thoroughly before and during use with a broad flat stirrer, using an upward lifting action.

#### Brush/Roller

Soak brush or roller in water before starting and use while still slightly damp. Thinning is usually not required.

#### Airless or Conventional Spray

Suitable for application by all standard spray equipment. Apply wet even coats. If necessary thin with up to 100 ml/litre water to aid atomisation. Under hot or very windy conditions, up to 100 ml/litre of DULUX Hot Weather Thinner may be added to ease application. On previously painted surfaces, apply 2 coats of Weathershield. Some colours may require more than the recommended number of coats to achieve full opacity. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), when painting over contrasting colour, apply 1 coat of Dulux 1Step prep-coat.

#### Within 1km of sea for galvanised iron, Zincalume

Apply one coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield. Preparation/coating system can vary depending on the quality and conditions of pre-primed timber/fibre cement, Colorbond® & Colorsteel® and tilt-up & precast concrete surfaces. For help and advice, please call Dulux Help & Advice on 0800 800 424 for specific guidance. Check the weather forecast. Do not paint on excessively cold or humid days. Exposure to rain or overnight dew whilst drying may result in the coating being damaged or removed. If painting during the hottest time of the day, cool the surface by hosing before painting and paint on the shady side of the house.

#### Steel/wrought iron

Apply 2 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

#### Bare surfaces including brick, masonry, fibre cement, Zincalume

Apply 3 coats of Weathershield.

#### Galvanised iron

Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

#### For Zincalume/galvanised iron roofs

Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

#### Bare unpainted timber

Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), for improved resistance to cracking on hardwoods (eg Mt Ash, Oak), apply a coat of Dulux 1Step Prepcoat prior to the application of two topcoats of Weathershield. Professional Painters refer to Duspec Specification Sheets to qualify for guarantee.

SDS Number  
**DLXNZLEN003378**

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### 3rd Coat — Dulux Weathershield Semi Gloss

Coat Type  
**3rd Coat**

Datasheet  
**NZDU00242 Dulux Weathershield Semi Gloss**

Read the full Datasheet details at [Dulux Weathershield Semi Gloss](#)

#### Application Methods

 **Air Spray**  **Airless Spray**  **Brush**  **Roller**

	Min	Max	Recommended
Theoretical Spread Rate (m <sup>2</sup> /L)	<b>16</b>	<b>16</b>	<b>16</b>
Wet Film Per Coat (microns)	<b>63</b>	<b>63</b>	<b>63</b>
Dry Film Per Coat (microns)	<b>25</b>	<b>25</b>	<b>25</b>
Recoat Time **	<b>2 Hours</b>	<b>Indefinite</b>	

V.O.C. Level  
**< 60 g/L untinted**

Meets ECNZ V.O.C. Requirements?  
**Yes**

Total Volatile Organic Content (TVOC) values are calculated in accordance to the stated methodology within Green Star Technical Manuals. The TVOC content is theoretically calculated as the sum total of the known VOC values of the product's raw material components. These materials include the base paint plus additional low VOC tinter required for non-factory packaged colours.

#### Coating Application Details

Brush, roller, conventional and airless spray. Stir contents thoroughly before and during use with a broad flat stirrer, using an upward lifting action.

#### Brush/Roller

Soak brush or roller in water before starting and use while still slightly damp. Thinning is usually not required.

#### Airless or Conventional Spray

Suitable for application by all standard spray equipment. Apply wet even coats. If necessary thin with up to 100 ml/litre water to aid atomisation. Under hot or very windy conditions, up to 100 ml/litre of DULUX Hot Weather Thinner may be added to ease application. On previously painted surfaces, apply 2 coats of Weathershield. Some colours may require more than the recommended number of coats to achieve full opacity. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), when painting over contrasting colour, apply 1 coat of Dulux 1Step prep-coat.

#### Within 1km of sea for galvanised iron, Zincalume

Apply one coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield. Preparation/coating system can vary depending on the quality and conditions of pre-primed timber/fibre cement, Colorbond® & Colorsteel® and tilt-up & precast concrete surfaces. For help and advice, please call Dulux Help & Advice on 0800 800 424 for specific guidance. Check the weather forecast. Do not paint on excessively cold or humid days. Exposure to rain or overnight dew whilst drying may result in the coating being damaged or removed. If painting during the hottest time of the day, cool the surface by hosing before painting and paint on the shady side of the house.

#### Steel/wrought iron

Apply 2 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

#### Bare surfaces including brick, masonry, fibre cement, Zincalume

Apply 3 coats of Weathershield.

#### Galvanised iron

Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

#### For Zincalume/galvanised iron roofs

Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), apply 1 coat of Dulux All Metal Primer followed by 2 topcoats of Weathershield.

#### Bare unpainted timber

Apply 3 coats of Weathershield. For Weathershield Chromamax Pigment Bases (True Red, Bold Yellow, Orange, Blue and Extra Bright bases), for improved resistance to cracking on hardwoods (eg Mt Ash, Oak), apply a coat of Dulux 1Step Prepcoat prior to the application of two topcoats of Weathershield. Professional Painters refer to Duspec Specification Sheets to qualify for guarantee.

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#### Coating System Notes

\* Practical Spreading Rate will vary from the quoted Theoretical Spreading Rate due to factors such as method and condition of application and surface roughness. \*\* Recoat times are quotes for 25°C and 50% relative humidity, these may vary under different conditions.

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Where any liability of Dulux in respect of this Specification cannot by law be excluded, Dulux's liability is limited, as permitted by law and at Dulux's option, to resupply of the relevant products or services or to reimbursing the cost of those products or services.

**WHERE LEAD MAY BE PRESENT:** The asset manager is responsible for verifying the presence of lead and determining whether to remove or encapsulate the lead. If lead is present, the work must be done in strict accordance with AS/ NZS 4361 Parts 1 and 2 and Worksafe Australia or New Zealand guidelines.