

NZDU02000 Dulux Weathershield Semi Gloss on New 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

DOMESTIC

CLEAN

Remove all surface contamination such as oil, grease or dirt by washing with an alkaline detergent, such as Dulux Prep Wash, and rinse with fresh potable water.

ABRADE

Thoroughly abrade the non ferrous metal surface to establish a mechanical key by scouring the surface with a nylon scouring pad, scotch-brite pad or power tool using a 50/50 mix of methylated spirits and water as a lubricant. Ensure all dust is removed prior to continuing.

DRY

Wipe dry using a clean cloth and allow to dry completely.

PRIME

Apply a suitable primer over the entire area as soon as possible to reduce the risk of corrosion.

INDUSTRIAL

CLEAN

Remove all surface contamination such as oil, grease or dirt by washing with an alkaline detergent, such as Dulux Prep Wash, and rinse with fresh potable water. Refer to AS1627.1 Part 1.4.4 - 1.4.6.

ABRADE

Dry abrasive "brush blast" clean (whip blast) the surface using a non-metallic abrasive such as garnet. The abrasive size and blast pressure shall be such that all oxidation products and other surface contaminants are completely removed and that the surface is profiled to provide a suitable key for adhesion of the coating system.

If the item being painted is not suitable for brush blasting (eg sheet metal or thin extrusions) then use non-metallic abrasive sanding pads to remove any existing oxidation and provide a suitable key for coating adhesion. Note that this preparation method is likely to be less effective than brush blasting and should only be used where brush blasting is not suitable.

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Remove all spent abrasive and residual dust by using dry compressed air or, preferably, vacuum cleaning prior to application of the coating. Avoid handling abraded metal with bare hands.

REPAIR SURFACE IMPERFECTIONS

Inspect the surface prior to coating to ensure no contamination is present and no surface defects exist. If either contaminants or defects are present, rectification is required before any coating is applied.

PRIME

Apply first or primer coat as soon as practical after preparation and before the surface oxidises or becomes re-contaminated.

Coating System Summary

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

Coating System					
1st Coat — Dulux 1 Step Prep V	Water Based Primer Sealer U	ndercoat			
Coat Type 1st Coat	Datasheet NZDU00432 Dulux 1	1 Step Prep Water Based Pri	mer Sealer Undercoat		
Read the full Datasheet details at <u>D</u>	Pulux 1 Step Prep Water Based Pr	rimer Sealer Undercoat			
Application Methods					
Air Spray 🛉 Airless Spray 👎 Brush T Roller					
	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. Requ Not Applicable	uirements?		
Coating Application Details Brush, roller, conventional or airless s ROLLER: Using a medium nap roller a Stir contents thoroughly before and AIRLESS/CONVENTIONAL SPRAY: S to aid atomisation. BRUSH: Wet brushes with water prio When painting exterior surfaces, ens	apply a full even coat direct from t during use. uitable for application by all stand r to use to avoid clogging. Apply	ard spray equipment. If nece a full even coat direct from th	ssary thin with up to 100ml per litre of water ne container.		
SDS Number DLXNZLEN002997		SDS Link <u>View SDS Link</u>			
2nd Coat — Dulux Weathershie	ld Semi Gloss				
Coat Type 2nd Coat	Datasheet NZDU00242 Dulux V	Datasheet NZDU00242 Dulux Weathershield Semi Gloss			
Read the full Datasheet details at Duluy Weathershield Semi Gloss					



Specification



Application Methods

শা Air Spray শাঁ Airless	Spray 👎 Brush 👎 Ro	ller	
	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 (TVOO accordance to the stated methodolc Manuals. The TVOC content is theor of the known VOC values of the proo These materials include the base pai required for non-factory packaged c	gy within Green Star Technical etically calculated as the sum total duct's raw material components. Int plus additional low VOC tinter

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	SDS Link
DLXNZLEN003378	<u>View SDS Link</u>



Specification



3rd Coat — Dulux Weathershield Semi Gloss					
Coat Type Datasheet NZDU00242 Dulux		Veathershield Semi Gloss			
Read the full Datasheet details at <u>Dulux Weathershield Semi Gloss</u>					
Application Methods					
Air Spray 🛉 Airless Spray 👎 Brush 🚏 Roller					
	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		of the known VOC values of the p	OC) values are calculated in ology within Green Star Technical eoretically calculated as the sum total roduct's raw material components. paint plus additional low VOC tinter		

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Bare unpainted timber



Specification



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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.

Disclaimer

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Unless Dulux has provided you with a customised, project-specific specification, this Duspec+ document does not represent that any particular product or product system will be suitable for your project.

Any information provided in this Duspec+ is given in good faith and is believed by Dulux to be correct at the time of publication. Products and coating systems can be expected to perform as indicated in this Duspec+ document, provided the substrate is in good condition, the coatings are applied by a suitably experienced and skilled applicator, and the preparation, application and maintenance is followed strictly as set out in this Duspec+ document, and as recommended on the applicable Dulux Product Data Sheet and Safety Data Sheets for the relevant products (available from www.duspecplus.co.nz). Climatic conditions at application time can affect Duspec+ documentation suitability and product performance.

The correct colour or colour match is the responsibility of the applicator. Colours will change over time and Dulux does not guarantee that the same colour newly mixed will match a colour applied earlier which has been subjected to weathering or other change elements. No product colour is guaranteed against colour change.

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.