

NZDU00652 Dulux Quantum FX Gloss on New Non-Ferrous Metals [Exterior]

Scope of Works

DULUX Durebild STE is a versatile, two-pack, high solids epoxy that can be easily applied by spray in shop and by brush and roller on site. Durebild STE's surface tolerant feature makes it an excellent universal tie-coat over previously painted surfaces or as a spot-primer and intermediate coat over power tool cleaned steel. The high build characteristics allow you to apply Durebild STE to higher film builds with fewer coats, saving you time and money. DULUX QUANTUM® FX is a premium quality, gloss, metallic, twopack acrylic polyurethane that offers a range of brilliant modern tinted colours. Designed for locations requiring visual impact, whilst maintaining aesthetics, it achieves amazing results. EXTERIOR NON FERROUS METAL - LONG TERM SYSTEM - METALLIC FINISH Gloss level: Gloss Coating type: Epoxy mastic/Polyurethane gloss (metallic finish) Preparation: Clean to AS 1627.1 and lightly abrade

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.

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 Durebild® STE Semi Gloss
- 2nd Coat Dulux Quantum FX Gloss
- 3rd Coat Dulux Quantum Clearcoat Gloss

Coating System

1st Coat — Dulux Durebild® STE Semi Gloss

Coat Type
1st Coat

Datasheet
NZDU00482 Dulux Durebild® STE Semi Gloss

Read the full Datasheet details at [Dulux Durebild® STE Semi Gloss](#)

Application Methods

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

	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	<input type="text"/>	<input type="text"/>	6.7
Wet Film Per Coat (microns)	<input type="text"/>	<input type="text"/>	150
Dry Film Per Coat (microns)	<input type="text"/>	<input type="text"/>	125
Recoat Time **	14 Hours	4 Weeks*	<input type="text"/>

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

2nd Coat — Dulux Quantum FX Gloss

Coat Type
2nd Coat

Datasheet
NZDU00524 Dulux Quantum FX Gloss

Read the full Datasheet details at [Dulux Quantum FX Gloss](#)


Application Methods

 **Airless Spray**

	Min	Max	Recommended
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Theoretical Spread Rate (m ² /L)			8.2
Wet Film Per Coat (microns)			120
Dry Film Per Coat (microns)			55
Recoat Time **	7 Hours	Indefinite	
Meets ECNZ V.O.C. Requirements? Not Applicable			

3rd Coat — Dulux Quantum Clearcoat Gloss

Coat Type 3rd Coat		Datasheet NZDU00525 Dulux Quantum Clearcoat Gloss	
Read the full Datasheet details at Dulux Quantum Clearcoat Gloss			
Application Methods			
<div> Airless Spray</div>			
	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	<div></div>	<div></div>	<div>9.5</div>
Wet Film Per Coat (microns)	<div></div>	<div></div>	<div>100</div>
Dry Film Per Coat (microns)	<div></div>	<div></div>	<div>45</div>
Recoat Time **	<div>7 Hours</div>	<div>Indefinite</div>	<div></div>
Meets ECNZ V.O.C. Requirements? Not Applicable			

Coating System Notes

* Theoretical Coverage is the area is the area covered by 1 Litre of material at the specifiaction 'Dry Film Thickness' without a loss to a smooth and non porous surface.

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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.

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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.