



NZDU02373 Dulux Aquanamel Gloss on New Galvanised Steel [Interior]

Scope of Works

DULUX Aquanamel Gloss is a premium quality water based interior and exterior acrylic enamel, that dries to a tough finish. This product is so resistant that common marks are able to be removed virtually without trace. It resists knocking, chipping and yellowing and is highly recommended for walls, doors, architraves, timber trim and skirting boards as an alternative to enamels, and is ideal for bathrooms, kitchens and laundries.

Substrate and Substrate Preparation

Substrate Notes

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

GALVANISED STEEL (Zinc Coated Steel, Galvanised Iron)

Galvanised steel has been coated with a layer of zinc, either by dipping in molten zinc/zinc alloy, sprayed with molten zinc metal or electrodeposition of zinc. The zinc layer provides galvanic corrosion protection in much the same way that zinc rich primers do, by corroding in preference to the steel with which it is in contact. New galvanised iron, zinc and zinc-alloy surfaces should be examined for flux residues, light roll-forming oils, and foreign matter, all of which must be removed. Surfaces that show white rust or other corrosion products should be cleaned and treated appropriately. Zinc and zinc-alloy coated surfaces must not be primed with alkyd based paints due to a chemical reaction between the zinc and the alkyd resin.

Galvanised steel can be difficult to paint and protect because of the highly reactive nature of galvanising, particularly in coastal and chemical environments.

In many circumstances superior corrosion protection and superior compatibility with topcoats can be achieved by the use of Dulux zinc-rich, two-pack primer on mild steel instead of hot dipped galvanising. Please consult a Dulux Protective Coatings representative for specific requirements.

ZINC METAL SPRAY

Steel sprayed with molten zinc metal. The zinc layer provides corrosion protection in much the same way as hot dipped galvanised steel. There are fewer limitations on the size of objects that can be coated than with hot dip galvanisation, however, the porosity of the resulting surface will be higher.

Substrate Preparation Notes

DOMESTIC

CLEAN

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.

ABRADE

Abrade surface thoroughly using an abrasive nylon pad to remove gloss and to provide a suitable key for the coating system to adhere to. Any white rust should be removed by abrasion. Care must be taken so as not to damage the zinc layer. Wash down residues and allow the surface to dry.

PRIME

Apply a suitable, corrosion-inhibiting primer to any bare metal areas as soon as possible, before the surface oxidises or becomes contaminated.

RUST AFFECTED SUBSTRATES

- 1. Remove any loose or flaking coating back to a hard edge by scraper or power tool. Feather back all edges to remove ridges. Abrade surface of remaining coating to provide a suitable surface key for adhesion of the new coating system.
- 2. Using wire brush or power tool cleaning methods as appropriate, clean all bare metal surfaces and rust-affected areas. If the rust is serve, remove all paint, zinc coating and rust with abrasive blast, power wire brush or power tool cleaning. Remove filings, preferably by vacuum or compressed air. Ensure that the surface is clean, corrosion-free and dry immediately prior to application of primer coat.
- 3. Spot prime all bare metal with an appropriate, corrosion-inhibiting primer as soon as possible, before the surface oxidises or becomes contaminated. Overlap onto the sound adjacent coating by 25 to 50 mm.

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. Repeat until the surface is clean. A clean surface is indicated when the rinsing water wets out the surface instead of beading on the surface. Refer to relevant sections of AS1627.1 2003 Part 2.

PREPARE SURFACE

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 zinc corrosion products and other surface contaminants are completely removed and that the surface is lightly profiled to provide a suitable key for the coating system to adhere to but with minimal reduction in the galvanised coating thickness (no more than 10 microns). If





the item being painted is not suitable for brush blasting (eg zinc coated, sheet steel cladding) then use non-metallic abrasive sanding pads to remove any existing corrosion 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 using dry compressed air or, preferably, vacuum cleaning prior to application of the coating. Avoid handling blasted galvanised steel with bare hands.

REPAIR

If the zinc coating has been accidentally removed, spot repair all such areas using a zinc rich primer compatible with the coating system.

PRIME

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

RUST AFFECTED STEEL

Coating System Summary

Dulux Precision All Metal Primer

Dulux Aquanamel Gloss

Dulux Aquanamel Gloss

• 1st Coat

• 2nd Coat

• 3rd Coat

- 1. Remove any loose or flaking coating back to a hard edge by scraper or power tool. Feather back all edges to remove ridges. Abrade surface of remaining coating to provide a suitable surface key for adhesion of the new coating system.
- 2. Using wire brush or power tool cleaning methods as appropriate, clean all bare metal surfaces and rust-affected areas in accordance with AS/NZ 1627:2 Class 2. Remove filings, preferably by vacuum or compressed air. Ensure that the surface is clean, corrosion-free and dry immediately prior to application of primer coat.
- 3. Spot prime all bare metal with an appropriate, corrosion-inhibiting primer as soon as possible, before the surface oxidises or becomes contaminated. Overlap onto the sound adjacent coating by 25 to 50 mm.

Coating System 1st Coat — Dulux Precision All Metal Primer Coat Type 1st Coat NZDU00280 Dulux Precision All Metal Primer Read the full Datasheet details at **Dulux Precision All Metal Primer** Application Methods Roller Air Spray **Airless Spray** Brush Min Max Recommended Theoretical Spread Rate (m²/L) 14.8 14.8 14.8 Wet Film Per Coat (microns) 68 68 68 Dry Film Per Coat (microns) 25 25 25 Recoat Time ** Indefinite 2 hours 2 hours V.O.C. Level Meets ECNZ V.O.C. Requirements? <60g/L **Not Applicable** 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: Apply full even coats to the prepared surface. Conventional/Airless Spray: Suitable for application by conventional or airless spray equipment. If necessary thin with up to 50ml/litre of water. For Galvanised Iron, Zincalume, Aluminium, Copper, Brass and Stainless Steel apply one coat of Dulux Precision All Metal Primer. For Steel & Wrought Iron apply two coats of Dulux PRECISION All Metal Primer. Note: Thinning can reduce the rust inhibiting performance of Dulux Precision All Metal Primer Do Not Tint SDS Number SDS Link





DLXNZ7EN001852			View SDS Link		
2nd Coat — Dulux Aquaname	el Gloss				
Coat Type 2nd Coat		Datasheet NZDU00333 Dulux Aquanamel Gloss			
Read the full Datasheet details at	t <u>Dulux Aqua</u>	anamel Gloss			
Application Methods					
<table-of-contents> Air Spray 🛉 Airless</table-of-contents>	s Spray	Brush Rol	ler		
	Min		Max		Recommended
Theoretical Spread Rate (m²/L)					16
Wet Film Per Coat (microns)					62
Dry Film Per Coat (microns)					23
Recoat Time **	2 hours		Indefinite		
<60 g/L inclusive of Dulux Low VOC tinter.			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 *Some colours may require more t with a broad flat stirrer using an up Brush, roller or spray Brush/Roller Brush- Dulux Professional range of Roller- Very short nap roller e.g. 5r Apply evenly, dividing area into pa Finally lay off each patch with light achieve the smoothest finish. Do n	brushes are mm atches about vertical strok	recommended. 50-60 square centimetreses again lapping lightly in	s. Paint one patch at a tim nto previously painted pat	ne working back	lk into previously applied paint. areas use a 5mm nap roller to
Weather Thinner should be added Airless/Conventional Spray: Airles Suitable for application by conventup to 30mL/L of water for airless sp. Wagner recommendation: F230 Ai Tip: 211 for archs and trim, 411 for Pressure: 1100 PSI 1-1.5 at the bar at the gun. Graco recommendation: Air Assist Tip: 210 or 310 Pressure: 1100 PSI	ss/Conventic tional or airle oray, and up ircoat recomr r doors	application performance to pnal Spray ss spray equipment. Up t to 5mL/L for HVLP spray,	o maximum of 50 ml per l o 100mL/L of water may b	litre.	
SDS Number DLXGHSEN001089			SDS Link View SDS Link		





Coat Type 3rd Coat	Datasheet NZDU00333 Dulux Aq	Datasheet NZDU00333 Dulux Aquanamel Gloss				
Read the full Datasheet details at <u>Dulux Aquanamel Gloss</u>						
Application Methods						
Air Spray 🛉 Airless Spray 📍 Brush 🚏 Roller						
	Min	Max	Recommended			
Theoretical Spread Rate (m²/L)			16			
Wet Film Per Coat (microns)			62			
Dry Film Per Coat (microns)			23			
Recoat Time **	2 hours	Indefinite				
V.O.C. Level <60 g/L inclusive of Dulux Low VO	C tinter.	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 *Some colours may require more than the recommended number of coats to achieve full opacity. Stir contents thoroughly before and during use with a broad flat stirrer using an upward lifting action. Brush, roller or spray						
Brush/Roller						
Brush- Dulux Professional range of brushes are recommended. Roller- Very short nap roller e.g. 5mm						
Apply evenly, dividing area into patches about 50-60 square centimetres. Paint one patch at a time working back into previously applied paint. Finally lay off each patch with light vertical strokes again lapping lightly into previously painted patches. On wall areas use a 5mm nap roller to achieve the smoothest finish. Do not lay off with a brush. Generally thinning is not recommended, however, under hot conditions Dulux Hot Weather Thinner should be added to improve application performance to maximum of 50 ml per litre.						
Airless/Conventional Spray: Airless/Conventional Spray Suitable for application by conventional or airless spray equipment. Up to 100mL/L of water may be added for application by conventional spray, up to 30mL/L of water for airless spray, and up to 5mL/L for HVLP spray, to aid atomisation.						
Wagner recommendation: F230 Aircoat recommended. Tip: 211 for archs and trim, 411 for doors Pressure: 1100 PSI 1-1.5 at the bar at the gun.						
Graco recommendation: Air Assisted Airless. Tip: 210 or 310 Pressure: 1100 PSI						
SDS Number DLXGHSEN001089		SDS Link <u>View SDS Link</u>				

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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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 quaranteed 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.