

NZDU01195 Dulux Aquanamel Semi Gloss on Painted Galvanised Steel [Interior]

Scope of Works

DULUX Aquanamel Semi 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

Remove all surface contamination such as oil, grease or dirt by alkaline detergent solution wash, such as Dulux Prep Wash, using stiff bristle brush if necessary, and rinse with fresh potable water. Repeat until the surface is clean. Alternatively, the surface can be cleaned by water blasting.

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.

REPAIR OF SURFACE DEFECTS

Remove all coatings that had failed adhesion test, or that are cracking, peeling, flaking or otherwise unsound by sanding, power sanding, scraping, wire brushing or burning off as appropriate. Where coating is removed back to a well-adhered, hard edge, feather the edges of the coating to remove visual ridges. Remove all residual loose matter resulting from the cleaning process by brush, vacuum, or clean, compressed air.

ABRADE SURFACE

Where the existing coating passes adhesion test, abrade surface to thoroughly de-gloss the surface and to provide a suitable surface for re-coating. Ensure all dust is removed prior to continuing.

PRIME

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.

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 severe, remove all paint, zinc coating and rust with abrasive blast cleaning, 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 alkaline detergent solution wash, such as Dulux Prep Wash, using stiff bristle brush if necessary, and rinse with fresh potable water. Repeat until the surface is clean. Alternatively, the surface can be cleaned by water blasting. 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.

ASSESS SUITABILITY

Ensure that all coatings are tightly adhering to the substrate by crosshatch adhesion test - if existing coating fails adhesion test, it must be removed.

REPAIR OF SURFACE DEFECTS

Remove all coatings that had failed adhesion test, or that are cracking, peeling, flaking or otherwise unsound by sanding, power sanding, scraping, wire brushing or burning off as appropriate. Where coating is removed back to a well-adhered, hard edge, feather the edges of the coating to remove visual ridges. Remove all residual loose matter resulting from the cleaning process by brush, vacuum, or clean, compressed air.

ABRADE SURFACE

Where the existing coating passes adhesion test, 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. Dust off. Complete removal of heavy chalky buildup may require wire brush or power tool cleaning back to sound paint layers before sanding.

PRIME









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.

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 in accordance with AS/NZ 1627.2 Class 2. If the rust is severe, remove all paint, zinc coating and rust with abrasive blast cleaning to AS1627.4 Class 2 or power wire brush or power tool cleaning or as appropriate to AS1627.2 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 Summary

- | | |
|---------------|----------------------------------|
| • Spot Primer | Dulux Precision All Metal Primer |
| • 1st Coat | Dulux Aquaname! Semi Gloss |
| • 2nd Coat | Dulux Aquaname! Semi Gloss |

Coating System			
Spot Primer — Dulux Precision All Metal Primer			
Coat Type Spot Primer	Datasheet NZDU00280 Dulux Precision All Metal Primer		
Read the full Datasheet details at Dulux Precision All Metal Primer			
Application Methods			
 Air Spray  Airless Spray  Brush  Roller			
	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	<input type="text" value="14.8"/>	<input type="text" value="14.8"/>	<input type="text" value="14.8"/>
Wet Film Per Coat (microns)	<input type="text" value="68"/>	<input type="text" value="68"/>	<input type="text" value="68"/>
Dry Film Per Coat (microns)	<input type="text" value="25"/>	<input type="text" value="25"/>	<input type="text" value="25"/>
Recoat Time **	<input type="text" value="2 hours"/>	<input type="text" value="Indefinite"/>	<input type="text" value="2 hours"/>
V.O.C. Level <60g/L	Meets ECNZ V.O.C. Requirements? 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 DLXNZ7EN001852	SDS Link View SDS Link		
1st Coat — Dulux Aquanamel Semi Gloss			
Coat Type 1st Coat	Datasheet NZDU00233 Dulux Aquanamel Semi Gloss		
Read the full Datasheet details at Dulux Aquanamel Semi Gloss			
Application Methods			
 Air Spray  Airless Spray  Brush  Roller			
	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	<input type="text" value="16"/>	<input type="text" value="16"/>	<input type="text" value="16"/>
Wet Film Per Coat (microns)	<input type="text" value="63"/>	<input type="text" value="63"/>	<input type="text" value="63"/>
Dry Film Per Coat (microns)	<input type="text" value="22"/>	<input type="text" value="22"/>	<input type="text" value="22"/>
Recoat Time **	<input type="text" value="2 Hours"/>	<input type="text" value="Indefinite"/>	<input type="text" value=""/>
V.O.C. Level	Meets ECNZ V.O.C. Requirements?		

<53 g/L inclusive of Dulux Low VOC tinters.	<p>Yes</p> <p>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.</p>
<p>Coating Application Details</p> <p>* 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.</p> <p>Brush, roller or HVLP spray</p> <p>Brush/Roller Brush- Dulux Professional brushes are recommended.</p> <p>Apply evenly, dividing area into patches about 50-60 square centimetres. Paint one patch at a time working back into previously applied paint.</p> <p>Finally lay off each patch with light vertical strokes again lapping lightly into previously painted patches.</p> <p>On wall areas use a 5-9mm nap synthetic roller to achieve the smoothest finish.</p> <p>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.</p> <p>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.</p> <p>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</p> <p>Graco recommendation: Air Assisted Airless. Tip: 210 or 310 Pressure: 1100 PSI</p>	
<p>SDS Number DLXNZLEN003191</p>	<p>SDS Link View SDS Link</p>

2nd Coat — Dulux Aquanamel Semi Gloss

Coat Type 2nd Coat		Datasheet NZDU00233 Dulux Aquanamel Semi Gloss	
Read the full Datasheet details at Dulux Aquanamel Semi Gloss			
Application Methods			
<div><div> Air Spray</div><div> Airless Spray</div><div> Brush</div><div> Roller</div></div>			
	Min	Max	Recommended
Theoretical Spread Rate (m²/L)	16	16	16
Wet Film Per Coat (microns)	63	63	63
Dry Film Per Coat (microns)	22	22	22
Recoat Time **	2 Hours	Indefinite	
V.O.C. Level <53 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 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 HVLP spray

Brush/Roller

Brush- Dulux Professional brushes are recommended.

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 5-9mm nap synthetic roller to achieve the smoothest finish.

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

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

DLXNZLEN003191

SDS Link

[View SDS Link](#)

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 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.