



NZDU01176 Dulux Aquanamel Semi Gloss on New Non-Ferrous Metals [Exterior]

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 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

Coating System Summary

• 1st Coat

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.

Dulux 1 Step Prep Water Based Primer Sealer Undercoat

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Coating System					
1st Coat — Dulux 1 Step Pre	p Water Base	d Primer Sealer Underco	at		
21		Datasheet NZDU00432 Dulux 1 Step Prep Water Based Primer Sealer Undercoat			
Read the full Datasheet details a	t <u>Dulux 1 Step</u>	<u>Prep Water Based Primer Se</u>	ealer Undercoat		
Application Methods					
Air Spray 🛉 Airles:	s Spray	Brush Roller			
Theoretical Spread Pate (m2/L)	Min	Ma.	Χ		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			ets ECNZ V.O.C. Req	uirements?	
Coating Application Details Brush, roller, conventional or airles ROLLER: Using a medium nap rolle Stir contents thoroughly before an AIRLESS/CONVENTIONAL SPRAY to aid atomisation. BRUSH: Wet brushes with water p When painting exterior surfaces, e	er apply a full event during use. Suitable for apprior to use to average.	plication by all standard spra	y equipment. If nece	essary thin with	th up to 100ml per litre of water
SDS Number DLXNZLEN002997			Link w SDS Link		
2nd Coat — Dulux Aquaname	el Semi Gloss				
Coat Type 2nd Coat		Datasheet NZDU00233 Dulux Aquana	mel Semi Gloss		





Read the full Datasheet details at <u>Dulux Aquanamel 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)	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.				
	than the recommended number of coad during use with a broad flat stirrer u are recommended.					
Apply evenly, dividing area into pa	atches about 50-60 square centimetres	s. Paint one patch at a time working l	back into previously applied paint.			
Finally lay off each patch with light	vertical strokes again lapping lightly ir	nto previously painted patches.				
On wall areas use a 5-9mm nap sy	nthetic roller to achieve the smoothest	finish.				
Generally thinning is not recomme performance to maximum of 50 ml	nded, however, under hot conditions per litre.	DULUX Hot Weather Thinner should	be added to improve application			
	tional or airless spray equipment. Up to oray, and up to 5mL/L for HVLP spray,		or application by conventional spray,			
Wagner recommendation: F230 Ai Tip: 211 for archs and trim, 411 fo Pressure: 1100 PSI 1-1.5 at the bar at the gun Graco recommendation: Air Assist Tip: 210 or 310 Pressure: 1100 PSI	r doors					
SDS Number DLXNZLEN003191		SDS Link View SDS Link				

3rd Coat — Dulux Aquanamel Semi Gloss				
Coat Type	Datasheet			
3rd Coat	NZDU00233 Dulux Aquanamel Semi Gloss			





Application Methods					
Air Spray Airles:	s 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)	22	22	22		
Recoat Time **	2 Hours	Indefinite			
V.O.C. Level <53 g/L inclusive of Dulux Low VOC tinter.		Yes Total Volatile Organic Conaccordance to the stated Manuals. The TVOC content of the known VOC values These materials include the	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.		
		ber of coats to achieve full opacity. at stirrer using an upward lifting action	n.		
Brush/Roller Brush- Dulux Professional brushes	are recommended.				
Apply evenly, dividing area into pa	atches about 50-60 square ce	entimetres. Paint one patch at a time	working back into previously applied paint.		
Finally lay off each patch with light	vertical strokes again lapping	g lightly into previously painted patch	nes.		
On wall areas use a 5-9mm nap sy	nthetic roller to achieve the s	moothest finish.			
Generally thinning is not recomme performance to maximum of 50 ml		onditions DULUX Hot Weather Thinne	er should be added to improve application		
Airless/Conventional Spray Suitable for application by conven- up to 30mL/L of water for airless sp			added for application by conventional spray,		
Wagner recommendation: F230 Ai Tip: 211 for archs and trim, 411 fo Pressure: 1100 PSI 1-1.5 at the bar at the gun					
Graco recommendation: Air Assist Tip: 210 or 310 Pressure: 1100 PSI	ed Airless.				
SDS Number		SDS Link	SDS Link		

Coating System Notes

DLXNZLEN003191

* 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.

View SDS Link





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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.