

## Dulux Quantum FX Gloss


NZDI1270

Description
QUANTUM is a premium quality, full gloss two-pack metallic polyurethane.

Features And Benefits	
<ul style="list-style-type: none"> <li>Outstanding weathering and chemical resistance</li> <li>Excellent application properties</li> <li>Tintable metallic range</li> <li>Two finishes available - fine and coarse metallic</li> </ul>	<ul style="list-style-type: none"> <li>Excellent gloss</li> <li>Good spray application</li> <li>Range of brilliant modern colours</li> </ul>

Uses
QUANTUM FX is a premium quality, gloss, metallic, two-pack acrylic polyurethane that offers a range of brilliant modern tinted colours. Designed for locations requiring visual impact, whilst maintaining aesthetics, it achieves amazing results through two finishes - fine and coarse metallic. QUANTUM FX has been designed for superior weathering and gloss retention, while displaying the advantage of being recoatable with minimal surface preparation. Ideal for almost any substrate and situation, QUANTUM FX will compliment structures such as awnings, cafes, bridgework, sporting and shopping complexes, lifts and furniture.

Performance Guide			
<b>Weatherability</b>	Excellent gloss and colour retention on exterior exposure.	<b>Salts</b>	Unaffected by splash and spillage of most salt solutions.
<b>Heat Resistance</b>	Up to 120°C dry heat.	<b>Water</b>	Excellent resistance to fresh and salt water but not suitable for immersion.
<b>Solvents</b>	Unaffected by splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons, esters and ketones.	<b>Acids</b>	Suitable for splash and spillage exposure to most acids.
<b>Alkalis</b>	Good resistance to splash and spillage of most common alkalis.		

Typical Properties			
<b>Classification</b>	Acrylic polyurethane coating	<b>Finish</b>	Gloss
<b>Colour</b>	Selected tinted metallic colours.	<b>Components</b>	2
<b>Flash Point</b>	24 C	<b>Pot Life</b>	2 Hours
<b>Mixing Ratio (V/V)</b>	Part A : 3 Part B:1	<b>Thinner</b>	965-63023 Prothinner 800
<b>Suitable Substrates</b>	Suitably primed steel, aluminium, zinc coated steel, concrete, fibreglass or MDF	<b>Line/Shade</b>	<ul style="list-style-type: none"> <li>722-Line</li> <li>976-87350</li> </ul>
<b>Primers</b>	Epoxy primers, etch primers and universal metal primers.		
<b>Application Methods</b>	 Airless Spray		
<b>Application Conditions</b>		<b>Min</b>	<b>Max</b>
	<b>Air Temperature</b>	10	45
	<b>Substrate Surface Temperature</b>	10	45
	<b>Relative Humidity</b>		85
<b>Solids By Volume</b>	45		
	<b>Min</b>	<b>Max</b>	<b>Recommended</b>
<b>Wet Film Per Coat (microns)</b>			120
<b>Dry Film Per Coat (microns)</b>			55
<b>Recoat Time (min)</b>	7 Hours	Indefinite	
<b>Theoretical Spread Rate (m<sup>2</sup>/L)</b>			8.2

**Hardener Details**

<b>Hardener Title</b>						
	<b>Coating Thickness (microns)</b>		<b>Recommended</b>	<b>Application Conditions (°C)</b>		
	<b>Min</b>	<b>Max</b>		<b>Min</b>	<b>Max</b>	
<b>Wet Film per Coat</b>				<b>Air Temp.</b>		
<b>Dry Film per Coat</b>				<b>Substrate Surface Temp.</b>		
				<b>Relative Humidity</b>		
				<b>Concrete Moisture Content</b>		
<b>Solids By Volume</b>		<b>V.O.C. Level</b>	<b>&lt;470 g/L</b>	<b>Pot Life</b>		
# Drying characteristics at 125 microns dry film thickness						
<b>Temperature</b>	<b>Humidity</b>	<b>Touch</b>	<b>Handle</b>	<b>Full Cure</b>	<b>Recoat Min</b>	<b>Recoat Max</b>
<b>Temperature</b>		<b>Touch</b>	<b>Handle</b>	<b>Full Cure</b>	<b>Recoat Min</b>	<b>Recoat Max</b>
25 C		40 Minutes	7 Hours	7 Days	7 Hours	Indefinite
# TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD				# A spreading rate of 8.2sq. meters per litre corresponds to 55 microns dry film thickness assuming no losses. Practical spreading rates will vary depending on such factors as method and condition of application and surface roughness		
<b>Hardener Section Footer</b>	These figures are given as a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.					

**Surface Preparation**

It is recommended that specifiers follow the guidelines for surface preparation from the data sheet for the primer selected. The primer surface must be free from grease, oil, dirt and other loosely adhering materials. For best appearance of the finish the primer surface must be smooth and free of any defects. When sanding work from coarse to fine grades of paper to avoid sanding marks in the finish.

Application Guide	
<b>Application Method</b>	Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Ensure bases have been tinted to the correct colour before use – DULUX ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF AN INCORRECT COLOUR. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 10 minutes. Box all containers before use to ensure colour consistency. Remix thoroughly before using.
<b>Brush/Roller</b>	Suitable for small areas only. Where larger areas are involved, application is improved by the addition of up to 100 ml/litre of Prothinner 800. When brushing and rolling additional coats may be required to attain opacity. Colour and appearance are dependent on thinning levels and application technique. The effect achieved will differ from that obtained by spray application.
<b>Conventional Spray</b>	Up to 200ml/litre Dulux Prothinner 800 can be used to aid atomisation and control the metallic effect achieved. Apply in multiple wet on wet coats overlapping each pass 50%. Colour and appearance are dependent on thinning levels, film build, spraying technique and gun set-up. Between two and four wet on wet coats are required to achieve opacity for the tinted colours. A short flash time of approximately two minutes is required between coats.  Typical Set-up Graco Delta Gun: 1.4mm (239542) Pressure at Pot: 65-100 kPa (10-15 p.s.i.) Pressure at Gun: 385-420 kPa (55-60 p.s.i.)
<b>Precautions</b>	This is an industrial product designed for use by experienced Protective Coating applicators. Where conditions may require variation from the recommendations on this Product Data Sheet contact your nearest Dulux representative for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the express written consent of Dulux Australia. Freshly mixed material must not be added to material that has been mixed for some time. The rate of cure is dependent upon temperature. Do not apply at temperatures below 10°C. Do not apply at relative humidity above 85% or when the surface is less than 3°C above the dewpoint. Ensure that you read and understand the safety precautions on the Material Safety Data Sheets for the two components before using. The recommended thinner MUST be used as some solvents react with the isocyanate hardener seriously degrading the life of the coating. Under no circumstances should water or non-recommended thinner be allowed to contaminate the product. Colour and appearance are dependent on thinning levels, film build, application method and technique. Control of these parameters is especially important when coatings are used on cladding. Do not use this product for this application without reference to a Dulux Protective Coatings representative. For the same tint formula there will be a difference in colour between the Fine and Coarse metallic finishes. This is due to the different sized aluminium flakes reflecting a different amount of light making the colour appear darker or lighter. In hot conditions use PROTHINNER 800 (965-63023) for improved flow and to reduce dry spray.
<b>Clean Up</b>	Clean up Prothinner 800

Overcoating
# Aged coating should be tested for lifting by a method suitable to the coating thickness, for example 'X' cut or crosshatch methods. If it lifts, remove it. The surface must be free of oil, grease and other contaminants. If the coating has exceeded the maximum recoat interval then abrade the surface. High-pressure water blast at 1,200 - 1,500 p.s.i. to remove loosely adhering chalk and dust.

Health And Safety	
<b>Safety Precautions</b>	# Read Data Sheet, Material Safety Data Sheet and any precautionary labels on containers.
<b>Storage</b>	Store as required for a flammable liquid Class 3 in a bunded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times.
<b>Handling</b>	As with any chemical, ingestion, inhalation and prolonged or repeated skin contact should be avoided by good occupational work practice. Eye protection approved to AS1337 should be worn where there is a risk of splashes entering the eyes. Always wash hands before smoking, eating, drinking or using the toilet. Gas is evolved when isocyanate in the hardener reacts with water. If a closed container shows signs of internal pressure, cover it completely with a cloth and remove the lid slowly to prevent splashing or violent expulsion of the lid.
<b>Using</b>	Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear a positive-pressure, air-supplied respirator. When spray painting, users should comply with the provisions of the respective State Spray Painting Regulations.
<b>Flammability</b>	This product is flammable. All sources of ignition must be eliminated in, or near the working area. DO NOT SMOKE. Fight fire with foam, CO2 or dry chemical powder. On burning will emit toxic fumes.
<b>Welding</b>	Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.
<b>In the case of emergency, please call 0800 734 607</b>	

Resistance Guide		
Chemical	Permanent Exposure	Intermittent Exposure

<b>Transport And Storage</b>			
<b>Packaging</b>	4L Packs	<b>Transportation</b>	1.28 kg/L
Dangerous Goods Part A			
<b>Class</b>	3	<b>UN Number</b>	1263
Dangerous Goods Part B			
<b>Class</b>	3	<b>UN Number</b>	1263

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