

## Dulux Quantum Clearcoat Gloss


NZDI1271

Description
QUANTUM is a premium quality, full gloss two-pack acrylic polyurethane. QUANTUM has been designed for superior weathering and gloss retention, while displaying the advantage of being recoatable with minimal surface preparation.

Features And Benefits	
<ul style="list-style-type: none"> <li>▪ Outstanding weathering and chemical resistance</li> <li>▪ Excellent application properties.</li> <li>▪ Graffiti resistance.</li> <li>▪ High gloss clear</li> </ul>	<ul style="list-style-type: none"> <li>▪ Longer life in harsher environments</li> <li>▪ Easy to apply</li> <li>▪ Good cleanup</li> </ul>

Uses
Ideal for almost any substrate and situation, and when used in conjunction with QUANTUM FX will compliment structures such as awnings, cafes, bridgework, sporting and shopping complexes, lifts and furniture. QUANTUM, when fully cured, exhibits excellent graffiti resistance.

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	<b>Finish</b>	HIGH GLOSS
<b>Colour</b>	Clear	<b>Components</b>	2
<b>Flash Point</b>	- 7 C	<b>Pot Life</b>	2 Hours
<b>Mixing Ratio (V/V)</b>	3:1 by volume	<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>▪ 722-30900</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>	43		
	<b>Min</b>	<b>Max</b>	<b>Recommended</b>
<b>Wet Film Per Coat (microns)</b>			100
<b>Dry Film Per Coat (microns)</b>			45
<b>Recoat Time (min)</b>	7 Hours	Indefinite	
<b>Theoretical Spread Rate (m<sup>2</sup>/L)</b>			9.5

<b>Hardener Details</b>						
Hardener Title						
	Coating Thickness (microns)			Application Conditions (°C)		
	Min	Max	Recommended	Min	Max	
Wet Film per Coat				Air Temp.		
Dry Film per Coat				Substrate Surface Temp.		
				Relative Humidity		
				Concrete Moisture Content		
Solids By Volume		V.O.C. Level	<510 g/L	Pot Life		
# Drying characteristics at 125 microns dry film thickness						
Temperature	Humidity	Touch	Handle	Full Cure	Recoat Min	Recoat Max
25 C	50%	40 Minutes	7 Hours	7 Days	7 Hours	Indefinite
# TYPICAL SPREADING RATE AT RECOMMENDED DRY FILM BUILD				A spreading rate of 9.5sq. meters per litre corresponds to 45 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		
Hardener Section Footer	These figures are given as a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.					

<b>Surface Preparation</b>
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.

<b>Application Guide</b>	
<b>Application Method</b>	Stir each can thoroughly until the contents are uniform. Use of a power mixer is recommended. Mix the contents of both packs together thoroughly using a power mixer and allow to stand for 10 minutes. 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.
<b>Conventional Spray</b>	Up to 200ml/litre Dulux Prothinner 800 can be used to aid atomisation. Apply in multiple wet on wet coats overlapping each pass 50%. Between two and four wet on wet coats are required to achieve opacity. Opacity may vary depending on colour. 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 New Zealand. 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. In hot conditions use Dulux Prothinner 800 for improved flow and to reduce dry spray.
<b>Clean Up</b>	Clean up Prothinner 800

<b>Overcoating</b>
# 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

Transport And Storage			
<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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