

QUANTUM® V92

High Durability Fluoropolymer Finish

PC 437

- FEATURES**
- BASED ON FLUOROPOLYMER CHEMISTRY FOR OUTSTANDING DURABILITY
 - CAN BE APPLIED UP TO 125 MICRONS DFT IN A SINGLE COAT VIA SPRAY APPLICATION
 - GOOD CHEMICAL & ABRASION RESISTANCE
 - EXCELLENT APPLICATION PROPERTIES
 - EXCELLENT GRAFFITI RESISTANCE

USES QUANTUM® V92 is a premium quality, high gloss two-pack fluoropolymer topcoat that has been designed to deliver superior weathering and gloss retention in areas of high UV radiation. QUANTUM® V92 imparts a premium quality finish for high demand areas such as commercial facades, road and rail infrastructure, retail complexes, high rise offices and apartments. The long exterior durability of QUANTUM® V92 reduces cost for the asset owner by extending the time maintenance is required.

QUANTUM® V92, when fully cured, exhibits excellent graffiti resistance and is ideal for public areas prone to graffiti attacks such as sporting facilities, public transport and retail facades.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	Outstanding gloss and colour retention on exterior exposure	SOLVENTS	Very good resistance to splash and spillage of common alcohols, aliphatic and aromatic hydrocarbons, esters and ketones
HEAT RESISTANCE	Up to 120°C dry heat	WATER	Excellent resistance to fresh and salt water but not suitable for immersion
SALTS	Unaffected by splash and spillage of most salt solutions	ALKALIS	Good resistance to splash and spillage of most common alkalis
ACIDS	Suitable for splash and spillage exposure to most acids	ABRASION	Excellent when fully cured

TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Modified fluoropolymer	APPLICATION CONDITIONS			
FINISH	Gloss or Satin		Min	Max	
COLOUR	An extensive range of tinted colours and MTO factory colours	Air Temp.	10°C	40°C	
		Substrate Temp.	10°C	40°C	
		Relative Humidity		85%	
		Concrete Moisture		<6%	
COMPONENTS	Two	COATING THICKNESS (MICRONS)			
VOLUME SOLIDS	62% (White)		Min	Max	Recommended
VOC LEVEL	<335 g/L (White)	Wet film per coat (µm)	80	200	120
FLASH POINT	22°C	Dry film per coat (µm)	50	125	75
POT LIFE	2 Hours (4 Litre kit, 25°C)	SUITABLE SUBSTRATES	Suitably primed substrates including steel, aluminium, galvanised steel, MDF and concrete		
MIXING RATIO V/V	Part A : 4 Part B : 1	PRIMERS	Specified Dulux® two pack epoxy primers		
THINNER - SPRAY	965-82095 Duthin® 700	TOPCOATS	Not applicable		
THINNER - BRUSH & ROLLER	965-63023 Urethane Thinner	APPLICATION METHODS	Brush, roller, conventional, airless spray or air assisted spray		
PRODUCT CODE	738-H0901 Light Base Gloss 738-H0903 Clear Base Gloss 741-H0901 Light Base Satin 741-H0903 Clear Base Satin 976-H0345 Standard Hardener				

DRYING CHARACTERISTICS AT 75 µm DRY FILM THICKNESS* (STANDARD HARDENER)

Temperature	Humidity	Touch	Handle	Full Cure	OVERCOAT	
					Min	Max ¹
15° C	50%	8 Hours	36 Hours	10 Days	4 Hours	3 Days
25° C	50%	4 Hours	24 Hours	7 Days	2 Hours	3 Days

*These figures are a guide only, as ventilation, film thickness, humidity, thinning and other factors will influence the rate of drying.
¹If the maximum overcoat interval is exceeded then the surface MUST be abraded to ensure maximum intercoat adhesion.

SPREADING RATE **8.3 square metres per litre equals 75 µm dry film thickness**
 with Standard Hardener NOTE: Practical spreading rates will vary depending on such factors as application method, ambient assuming no losses conditions, surface porosity and roughness.

QUANTUM® V92

SURFACE PREPARATION	Refer to prime coat data sheet for surface preparation recommendations.																						
APPLICATION	Mix each can thoroughly using a power mixer until the contents are uniform. Ensure product has been tinted to the correct colour before use. DULUX® ASSUMES NO RESPONSIBILITY FOR THE APPLICATION OF INCORRECT COLOUR. Mix the contents of both packs together thoroughly with a power mixer. Box all containers before use to ensure colour consistency. Remix thoroughly before and during application to prevent settling.																						
APPLICATION EQUIPMENT	<p>Airless Spray: Graco K60FH2 or equivalent Thinning is not normally required but up to 50 ml/litre or 5% of Duthin® 700 (965-82095) may be added to aid application. Apply in multiple wet coats overlapping each pass 50%.</p> <table border="1"> <thead> <tr> <th>Tip Orifice</th> <th>Atomising Pressure</th> <th>Mat'l Hose ID</th> <th>Pump Manifold Filter</th> </tr> </thead> <tbody> <tr> <td>0.011" – 0.015" (279 - 381 microns)</td> <td>2,700 – 3,600 psi (186 – 248 bar)</td> <td>3/8" (9.5 mm)</td> <td>100 mesh (149 microns)</td> </tr> </tbody> </table> <p>NOTE: A 2 metre x 1/4" (6.35mm) whip hose is allowed at the end of the material hose for greater ease of application.</p> <p>Air Spray: Graco Triton 308 or equivalent Thin 50-100ml/litre or 5-10% of Duthin® 700 (965-82095) to aid in application. Apply in multiple wet coats overlapping each pass 50%.</p> <table border="1"> <thead> <tr> <th>Gun</th> <th>Fluid Tip</th> <th>Air Cap</th> <th>Air Hose ID</th> <th>Mat'l Hose ID</th> <th>Atomising Pressure</th> <th>Material Pressure</th> </tr> </thead> <tbody> <tr> <td>Graco Air Pro or Equivalent</td> <td>2.2 mm (0.086)</td> <td>Graco 192318</td> <td>5/16" or 3/8" (7.9 or 9.5 mm)</td> <td>3/8" (9.5 mm)</td> <td>40 to 50 psi (2.76 – 3.45 Bar)</td> <td>15 to 20 psi (1.03 – 1.38 Bar)</td> </tr> </tbody> </table> <p>NOTE: Low temperatures and/or long hose lengths require higher material pressure.</p> <p>Roller: Thin 10% to 15% with Dulux Urethane Thinner (965-63023). Recommended for general purpose use. Use 5mm RotaCota Smooth Microfibre Roller Cover. Note: Two or more coats may be required to obtain recommended film thicknesses.</p> <p>Brush: Thin 10% to 15% with Dulux Urethane Thinner (965-63023). Recommended for general purpose use. Use high quality natural or synthetic bristle brushes. Note: Two or more coats may be required to obtain recommended film thicknesses.</p>	Tip Orifice	Atomising Pressure	Mat'l Hose ID	Pump Manifold Filter	0.011" – 0.015" (279 - 381 microns)	2,700 – 3,600 psi (186 – 248 bar)	3/8" (9.5 mm)	100 mesh (149 microns)	Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomising Pressure	Material Pressure	Graco Air Pro or Equivalent	2.2 mm (0.086)	Graco 192318	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" (9.5 mm)	40 to 50 psi (2.76 – 3.45 Bar)	15 to 20 psi (1.03 – 1.38 Bar)
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PRECAUTIONS	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® Protective Coatings Consultant for advice prior to painting. Do not apply in conditions outside the parameters stated in this document without the written consent of Dulux® Protective Coatings 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 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.																						
CLEAN UP	Clean all equipment with Dulux® Duthin 700 (965-82095) immediately after use																						
OVERCOATING	For atmospheric service: Assess the condition of aged coatings and the viability of an overcoat system in accordance with the latest versions of SSPC TU No.3, ASTM D 5064, and ASTM D 5065. Consult your local Dulux® Protective Coatings Consultant for specific surface preparation and coating system recommendations. Epoxies must be thoroughly and uniformly abraded if recoated outside the recoat window.																						

SAFETY PRECAUTIONS	Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels. SAFETY DATA SHEET is available from Customer Service (13 23 77) or www.duluxprotectivecoatings.com.au
STORAGE HANDLING USING FLAMMABILITY WELDING	<p>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.</p> <p>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 must be worn while handling. 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.</p> <p>Use with good ventilation and avoid inhalation of spray mists and fumes. When spraying, wear a positive-pressure, air-supplied respirator. Users must always comply with the provisions of the respective State Spray Painting Regulations at all times.</p> <p>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.</p> <p>Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.</p>

COMPANY INFORMATION		PACKAGING, TRANSPORT AND STORAGE	
Dulux Protective Coatings a division of		PACKAGING	Available in 10 litre kits
DuluxGroup (Australia) Pty Ltd 1956 Dandenong Road, Clayton 3168 A.B.N. 67 000 049 427	DuluxGroup (New Zealand) Pty Ltd 150 Hutt Park Road, Lower Hutt, NZ A.B.N. 55 133 404 118	TRANSPORTATION WEIGHT	1.35 kg/litre (Average of components)
		DANGEROUS GOODS	Part A: Class 3 UN 1263 Part B: Class 3 UN 1263

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