

QUANTUM® V92

High Durability Fluoropolymer Finish

PC 437

- FEATURES**
- BASED ON FLUOROPOLYMER CHEMISTRY FOR OUTSTANDING DURABILITY
 - 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.

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	
	Must only be tinted using the DuColour® tint system		Relative Humidity		85%	
			Concrete Moisture		<6%	
COMPONENTS	Two		COATING THICKNESS (MICRONS)*			
VOLUME SOLIDS	62% (White)			Min	Max	Recommended
VOC LEVEL	<335 g/L (White)					
FLASH POINT	22°C		Wet film per coat (µm)	120	200	160
POT LIFE	2 Hours (4L kit, Standard Hardener, 25°C)		Dry film per coat (µm)	75	125	100
MIXING RATIO V/V	Part A : 4	Part B : 1				
THINNER - SPRAY	965-82095	Duthin® 700	SUITABLE SUBSTRATES	Suitably primed substrates including steel, aluminium, galvanised steel, MDF and concrete		
THINNER – BRUSH & ROLLER	965-08410	Duthin® 540 Thinner				
PRODUCT CODE	738-H0901	Light Base Gloss	PRIMERS	Specified Dulux® two pack epoxy primers		
	738-H0903	Clear Base Gloss				
	741-H0901	Light Base Satin	TOPCOATS	Not applicable		
	741-H0903	Clear Base Satin				
	976-H0345	Standard Hardener	APPLICATION METHODS	Brush, roller, conventional, airless spray or air assisted spray		
	976-H0418	Quickturn® Hardener				

* Full opacity of the coating is required for expected performance to occur. The dry film thickness requirements will vary by project and by colour. Please contact your local Dulux Protective Coatings representative to confirm required film build.

DRYING CHARACTERISTICS AT 100 µm DRY FILM THICKNESS* (STANDARD HARDENER)

					OVERCOAT	
Temperature	Humidity	Touch	Handle	Full Cure	Min	Max ¹
5° C	50%	10 Hours	48 Hours	14 Days	8 Hours	3 Days
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
35° C	50%	2 Hours	18 Hours	5 Days	1 Hour	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
with Standard Hardener
assuming no losses

6.2 square metres per litre equals 100 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions, surface porosity and roughness.

QUANTUM® V92

QUICKTURN® HARDENER

COATING THICKNESS (MICRONS)

	Min	Max	Recommended
Wet film per coat (µm)	120	200	160
Dry film per coat (µm)	75	125	100

SOLIDS BY VOLUME	62% (White)
VOC LEVEL	<335 g/L (White)
FLASH POINT	22°C
POT LIFE	1.5 Hours (4 litre kit, 25°C)

APPLICATION CONDITIONS

	Min	Max
Air Temperature	10°C	40°C
Substrate Surface Temperature	10°C	40°C
Relative Humidity		85%
Concrete Moisture		<6%

DRYING CHARACTERISTICS AT 100 µm DRY FILM THICKNESS* (QUICKTURN® HARDENER)

					OVERCOAT	
Temperature	Humidity	Touch	Handle	Full Cure	Min	Max ¹
5° C	50%	7.5 Hours	36 Hours	10.5 Days	6 Hours	3 Days
15° C	50%	6 Hours	27 Hours	7.5 Days	3 Hours	3 Days
25° C	50%	3 Hours	18 Hours	5.25 Days	1.5 Hours	3 Days
35° C	50%	1.5 Hours	13.5 Hours	3.75 Days	45 Mins	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

WITH QUICKTURN®
HARDENER ASSUMING NO
LOSSES

6.2 square metres per litre equals 100 µm dry film thickness

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

TYPICAL SYSTEMS

This is a guide only and not to be used as a specification. Your specific project needs must be discussed with a Dulux Protective Coatings Consultant.

SURFACE	ENVIRONMENT	PREPARATION GUIDE	SYSTEM	DFT (µm)
STEEL – NEW	Very high corrosivity (AS2312.1 Cat C5) Exceeds System PUR5	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat	Zincanode® 402
			2 nd Coat	Duremax® GPE MIO
			3 rd Coat	Quantum® V92
STEEL – NEW	High corrosivity (AS2312.1 Cat C4) Exceeds System PUR3	Abrasive blast clean AS1627.4 Class 2.5	1 st Coat	Duremax® GPE ZP
			2 nd Coat	Duremax® GPE
			3 rd Coat	Quantum® V92
STEEL – MAINTENANCE	Medium Corrosivity (AS2312.1 Cat C3) Exceeds System PUR6	Power tool clean AS1627.2 St 3	Spot Prime	Durebild® STE
			1 st Coat	Durebild® STE
			2 nd Coat	Quantum® V92
CONCRETE	Exterior/Interior	Remove release agents and other surface contaminants	1 st Coat 2 nd Coat	Durebild® STE Quantum® V92
HARDWOOD & MDF	Interior	Sand and dust down before and after first coat	1 st Coat	Luxepoxy® 4 White Primer
			2 nd Coat	Quantum® V92
			3 rd Coat	Quantum® V92
ALUMINIUM & FIBREGLASS	Exterior/Interior	Clean, degrease and abrade surface	1 st Coat	Luxepoxy® 4 White Primer
			2 nd Coat	Quantum® V92
			3 rd Coat	Quantum® V92
FIBRE CEMENT SHEET	Exterior/Interior	Clean, degrease and lightly sand surface. Dust down.	1 st Coat	Luxepoxy® 4 White Primer
			2 nd Coat	Quantum® V92
			3 rd Coat	Quantum® V92

NOTE: If application is by brush or roller, additional coats will be necessary to achieve the minimum DFT and full opacity.
Appearance may greatly differ depending on application method (brush, roller and spray).

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	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%. <table><tr><td>Tip Orifice</td><td>Atomising Pressure</td><td>Mat'l Hose ID</td><td>Pump Manifold Filter</td></tr><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></table> 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. 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%. <table><tr><td>Gun</td><td>Fluid Tip</td><td>Air Cap</td><td>Air Hose ID</td><td>Mat'l Hose ID</td><td>Atomising Pressure</td><td>Material Pressure</td></tr><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></table> NOTE: Low temperatures and/or long hose lengths require higher material pressure. Roller: Thin 10% to 15% with Dulux Duthin 540 Thinner (965-08410). 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. Brush: Thin 10% to 15% with Dulux Duthin 540 Thinner (965-08410). 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.	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. Must only be tinted using the DuColour® tint system.																						
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	Store as required for a flammable liquid Class 3 in a bonded area under cover. Store in well-ventilated area away from sources of heat or ignition. Keep containers closed at all times. 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. 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. 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. Avoid inhalation of fumes if welding surfaces coated with this paint. Grind off coating before welding.																						

COMPANY INFORMATION

Dulux Protective Coatings a division of

DuluxGroup (Australia) Pty Ltd
1956 Dandenong Road, Clayton 3168
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DuluxGroup (New Zealand) Pty Ltd
150 Hutt Park Road, Lower Hutt, NZ
A.B.N. 55 133 404 118

PACKAGING, TRANSPORT AND STORAGE

PACKAGING Available in 10 litre packs

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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