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
FINISH	Gloss or Satin
COLOUR	An extensive range of tinted colours and MTO factory colours Must only be tinted using the DuColour® tint system
COMPONENTS	Two
VOLUME SOLIDS	62% (White)
VOC LEVEL	<335 g/L (White)
FLASH POINT	22°C
POT LIFE	2 Hours (4L kit, Standard Hardener, 25°C)
MIXING RATIO V/V	Part A : 4 Part B : 1
THINNER - SPRAY	965-82095 Duthin® 700
THINNER – BRUSH & ROLLER	965-63023 Urethane Thinner
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 976-H0418 Quickturn® Hardener

APPLICATION CONDITIONS

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

COATING THICKNESS (MICRONS)*

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

SUITABLE SUBSTRATES	Suitably primed substrates including steel, aluminium, galvanised steel, MDF and concrete
PRIMERS	Specified Dulux® two pack epoxy primers
TOPCOATS	Not applicable
APPLICATION METHODS	Brush, roller, conventional, airless spray or air assisted spray

* 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.
[1]**If 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.

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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.
[1]**If 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.

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%.

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)

NOTE: A 2 metre x ¼" (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%.

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)

NOTE: Low temperatures and/or long hose lengths require higher material pressure.

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.

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.

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 bunded 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, CO_2 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
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DuluxGroup (New Zealand) Pty Ltd
150 Hutt Park Road, Lower Hutt, NZ
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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