

Product Range Brochure

# Quantum®

Premium Quality Two-Component Topcoats



Games Memories,  
Sydney Olympic Park,  
Sydney



Qantas Founders Museum,  
Longreach,  
Queensland

**Protection you can count on.**

Dulux® Quantum® is a range of premium quality, two-component topcoats designed for superior weathering and gloss retention even in areas of extreme UV radiation.



## Fluoropolymer Coatings

### Quantum® V92

Quantum® V92 imparts a premium quality finish for high demand areas such as commercial façades, 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 significantly extending the time maintenance is required.

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



#### Features:

- Outstanding gloss and colour retention on exterior exposure
- Excellent graffiti resistance
- Good chemical and abrasion resistance
- Gloss or satin finish
- Available in tintable bases

#### Features:

- Reduces maintenance cost by significantly extending the time between maintenance cycles
- Created to deal with Australia and New Zealand's high UV environments
- Easy application via spray, brush and roller
- Available in a large range of Dulux and AS 2700 colours

# Polysiloxane Coatings

## Quantum® Si 70

Quantum® Si 70 is a two-component epoxy polysiloxane finish with high build properties that allow it to be used in a protective two coat system when used with an approved primer coat. When used in an approved system, Quantum® Si 70 delivers both long term corrosion and chemical protection of steel that is subject to sheltered or exposed (C1-C5) environments. Typical areas of application of Quantum® Si 70 include bridges, stadiums, commercial assets and mining assets.



### Features:

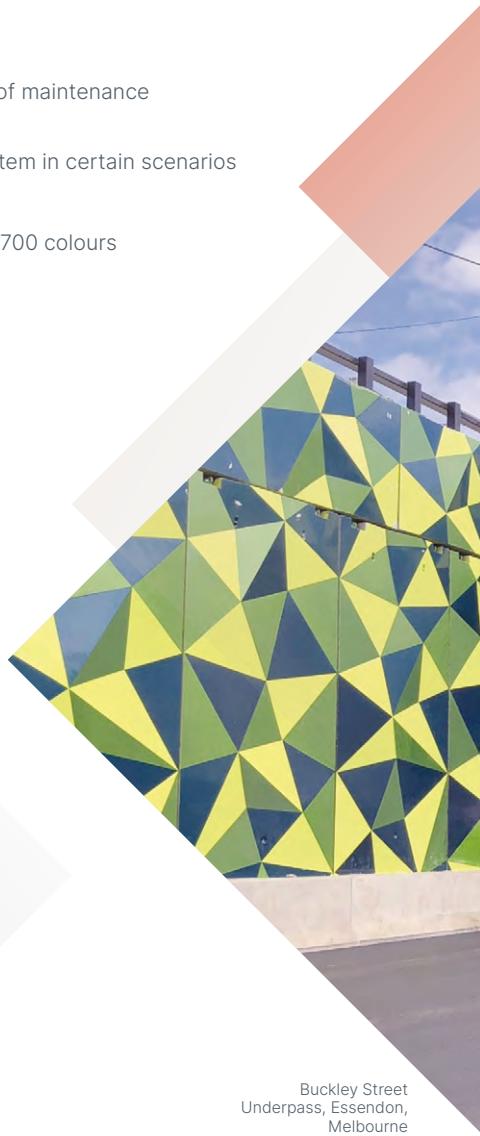
- Excellent exterior weatherability
- High build, high volume solids
- Isocyanate free
- Tintable – available in a wide range of colours
- Suitable for use in a two-coat system

### Benefits:

- Long term protection reduces frequency of maintenance scheduling
- High build allows two-coat protective system in certain scenarios
- Suitable for off-site or on-site application
- Available in large range of Dulux and AS 2700 colours



Canberra Light Rail,  
Canberra



Buckley Street  
Underpass, Essendon,  
Melbourne

# Polyurethane Coatings

## Quantum® 221

Quantum® 221 is a premium quality, high gloss two-pack acrylic polyurethane. Quantum® 221 has been designed for superior weathering and gloss retention even in areas of extreme UV radiation. Quantum® 221 is readily recoatable with minimal surface preparation.



### Features:

- Outstanding weathering and chemical resistance
- Excellent application properties
- Excellent graffiti resistance
- High gloss Quantum® Clearcoat available

### Benefits:

- Maintains asset value with reduced maintenance requirements
- Very high aesthetic appeal for areas of high public scrutiny
- Withstands high UV radiation
- Versatile – equally suitable for high visual impact and for heavy duty protection

## Quantum® Clearcoat

Quantum® Clearcoat is a premium quality, high gloss crystal clear two-pack acrylic polyurethane. Quantum® Clearcoat has been designed for superior weathering and gloss retention even in areas of extreme UV radiation. Quantum® Clearcoat is readily recoatable with minimal surface preparation.

Quantum® Clearcoat, when fully cured, exhibits excellent graffiti resistance.



### Features:

- Outstanding weathering and chemical resistance
- Excellent application properties by spray
- Excellent graffiti resistance
- High gloss finish

### Features:

- Protects against defacement by graffiti
- Greatly extends the service life of Quantum® FX

## Quantum® FX

Quantum® FX is a premium quality, bright metallic two-pack acrylic polyurethane in a range of 60 brilliant colours. Designed for areas requiring visual impact, Quantum® FX offers two striking finishes - fine and coarse metallic.

Quantum® FX exhibits outstanding long term exterior durability and gloss retention when topcoated in Quantum® Clearcoat, and is easily recoatable with minimal surface preparation.



### Features:

- Excellent application properties by spray
- Outstanding weathering and chemical resistance with quantum® clearcoat
- Tintable metallic range
- Two finishes available – fine and coarse metallic

### Features:

- High durability offers long term aesthetic appeal to commercial projects Coatings topcoats and primers
- Areas of high public scrutiny are easy to maintain graffiti-free



Federation Square,  
Melbourne



Nortask Crane, Dalby,  
Queensland

# Case Studies

## Lachlan's Line Bridge, Sydney, Australia

The \$40-million Lachlan's Line Bridge is set to become an iconic landmark in Northern Sydney.

Spiralling above the M2 motorway, the boldly designed steel bridge provides pedestrians and cyclists with safe passage between North Ryde Railway Station, Macquarie Park and the new Lachlan's Line residential precinct.

The vibrant blue colour and corrosion protection were key factors in creating the three-step treatment for this engineering and architectural work of art, and each product was made to order for the project.

A topcoat of Dulux® Quantum® V92 in Dulux Arena Blue followed a primer coat of Dulux® Zincanode® 402 then a coat of Dulux® Duremax® GPE MIO (micaceous iron oxide), each adding their own protective qualities.

**Location:** Sydney, Australia

**Contractor:** Areenco and Daracon Group

**Steel Fabricator:** S&L Steel

**Featured Product:** Quantum® V92





## Orbis Apartments, Melbourne, Australia

Orbis is a seven-storey apartment building located near tranquil Albert Park Lake and the vibrant South Melbourne shopping precinct. The stunning façade comprises curved fibreglass panels, which were carefully hand sanded and primed with Dulux® Durepon® Sandable Primer and spray painted in Dulux® Quantum® FX, a bright metallic polyurethane with reflective metallic flakes. The metallic coating was finished with a coat of Quantum® Clearcoat, a high gloss clear polyurethane to impart depth of colour and enhanced metallic effect and enhanced UV protection. The result is a spectacular, sculptural façade that responds to the ever-changing colours of the days and seasons, whether reflecting the sun's rays with golden brilliance, meeting a cloudy day with a serene sheen or glimmering under night-time lighting. The high-performance nature of the coating system also provides long term durability and low maintenance, whilst maintaining asset value and street appeal.

**Location:** Melbourne, Australia

**Featured Product:** Quantum® FX

## Quantum® range data summary

|                               | Product            | Finish                             | Tintable | Weatherability | Graffiti Resistance | Volume Solids | VOC Level (g/L) | Drying Characteristics* |              |
|-------------------------------|--------------------|------------------------------------|----------|----------------|---------------------|---------------|-----------------|-------------------------|--------------|
|                               |                    |                                    |          |                |                     |               |                 | To Touch Dry            | To Full Cure |
| <b>Polyurethane Coatings</b>  | Quantum® 221       | High Gloss                         | Yes      | Excellent      | Excellent           | 52.9%         | < 432           | 40 Minutes              | 7 Days       |
| <b>Quantum® Clearcoat</b>     | Quantum® Clearcoat | High Gloss                         | No       | Excellent      | Excellent           | 43%           | < 510           | 1 Hour                  | 7 Days       |
| <b>Quantum® FX</b>            | Quantum® FX        | Gloss (Fine) or Low Gloss (Coarse) | Yes      | Excellent**    | Excellent**         | 45%           | < 470           | 40 Minutes              | 7 Days       |
| <b>Polysiloxane Coatings</b>  | Quantum® Si 70     | Gloss                              | Yes      | Excellent      | Excellent           | 96%           | < 40            | 3 Hours                 | 7 Days       |
| <b>Fluoropolymer Coatings</b> | Quantum® V92       | Gloss or Satin                     | Yes      | Outstanding    | Excellent           | 62%           | < 335           | 4 Hours                 | 7 Days       |

For further product information refer to the relevant product data sheet

\* These figures are a guide only and are based on typical results at 25°C and 50% Relative Humidity

\*\* Quantum® FX has excellent weatherability and graffiti resistance when topcoated with Quantum® Clearcoat

### Australia

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### New Zealand

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