

Dulux[®]

POWDER & INDUSTRIAL COATINGS

PRODUCT SOLUTIONS

FLUOROSET[®]

POWDERCOAT RANGE



ULTRA DURABLE
FLUOROPOLYMER

SOLID
LOOK



**ALUMI
SHIELD™**
WARRANTY

35 YEAR
ALUMINIUM
DURABILITY
WARRANTY

30 YEAR
ALUMINIUM
COLOUR
WARRANTY

**STEEL
SHIELD™**
WARRANTY

UP TO
10 YEAR
STEEL
CORROSION
WARRANTY

30 YEAR
STEEL
COLOUR
WARRANTY

Worth doing, worth Dulux.[®]

Worth doing. Worth Dulux.®

Fluoroset are a range of subtle and neutral solid colours, delivered with warranty grade advanced ultra durable fluoropolymer thermosetting powder.



✓ Ultra durable hardwearing finish

✓ Superior colour retention

Suitable Substrates

Fluoroset is ideal for warranty grade applications over:

- Architectural aluminium including perforated and expanded aluminium
- Steel (mild), bright/semi bright steel, black steel and blue steel

Fluoroset can also be used on the following metals but these are not warranted:

- Galvanised steel, stainless steel, zincalume® and non ferrous metals.

Warranted Benefits

The Dulux Fluoroset range are supported by Dulux Alumi Shield™ and Dulux Steel Shield™ warranties when applied by a Dulux Accredited Powder Coater to the warranty specification on recommended project types and conditions.

Alumi Shield™ Warranty	Steel Shield™ Warranty
<p>The Alumi Shield™ warranty is made up of two key components, a colour warranty (for fade and chalking) and a durability warranty (film integrity)</p>	<p>The Steel Shield™ warranty is made up of two key components, a colour warranty (for fade and chalking) and a corrosion warranty</p>

Terms and conditions apply

- The Alumi Shield™ and Steel Shield™ colour Warranties are your assurance that Fluoroset will not:
 - Fade** – Fade testing will not give a delta E (Hunter) laboratory reading greater than five units from the original colour.
 - Chalk** – The rate of chalking will not exceed a rating of 2 for whites & pastels and a rating of 3 for deep colours as assessed in accordance with AS1580.481.1.11 test method.
- The Alumi Shield™ durability warranty covers the powder coating peeling, cracking or flaking during the warranty period, from the date the product is applied to the metal.
- The Steel Shield™ corrosion warranty covers the powder coating corroding, peeling, cracking or flaking during the warranty period, from the date the product is applied to the metal. Corrosion will be no more than 5% in accordance with the degree of corrosion as a percentage contained in AS/NZS:2312.
- Warranties are only valid when applied by a Dulux Accredited Powder Coater to the warranty specification on recommended project types and conditions

For more information visit duluxpowders.com.au/warranties

Meets International Standards








With over 50 years of experience, the AAMA (American Architectural Manufacturer's Association) is regarded as the standards leader for finishes on architectural aluminium. Dulux Fluoroset is formulated to meet: AAMA 2603, AAMA 2604 and AAMA 2605 as well as Australian standard AS 3715.

For more information visit aamanet.org

Project Suitability

Project Types

Fluoraset is ideal for most interior and exterior project types on steel and aluminium.

							
	NON-HABITABLE	RESIDENTIAL <4 LEVELS	RESIDENTIAL >3 LEVELS	COMMERCIAL <4 LEVELS	COMMERCIAL >3 LEVELS	PRESTIGIOUS COMMERCIAL	MONUMENTAL
INTERIOR	●	●	●	●	●	●	●
EXTERIOR	●	●	●	●	●	●	●

- Non-Habitable projects are those that are not dwelling types. Examples can be furniture, bus shelters, signage etc.
- Residential properties are typically easy to maintain, given their height and access.
- High-rise projects are less sheltered from neighbouring buildings, raising their exposure and reducing their ease of maintenance.
- Monumental projects attract the most attention and have the highest standards required to uphold the reputation expected from landmark sites.

Project Suitability - Aluminium

Project Type	Environment	Conditions	Fluoraset
Monumental	Exterior	Mild, Severe or Tropical	●
Prestigious Commercial	Exterior	Mild, Severe or Tropical	●
Commercial	Exterior	Mild, Severe or Tropical	●
Residential	Exterior	Mild, Severe or Tropical	●
Non-Habitable	Exterior	Mild, Severe or Tropical	●
All Projects	Interior	Moderate Interior	●
All projects	Interior	General Interior	●

- Alumi Shield™ warranty available

Fluoraset may be suitable for coastal environments <10m from the high tide line e.g. harbours (contact Dulux for advice) and is NOT suitable in strongly acidic or caustic environments so PH must be between 5 and 9.

Please refer to Interior and exterior environments close to liquids for warranty implications where powder coatings may be in close proximity to liquids other than the sea.

Alumi Shield™ warranties on perforated and expanded aluminium are available for Fluoraset in the following environments:

- Interior: General Interior conditions (E-Prime base coat not mandatory); Moderate Interior (E-Prime base coat mandatory).
- Exterior: Mild (E-Prime base coat not mandatory); Severe and tropical: (E-Prime basecoat mandatory).

For more information about specifications on perforated and expanded aluminium visit duluxpowders.com.au

Conditions

Use the following table which references AS2312.1 and AS3715 to identify the environment, conditions and atmospheric corrosivity categories.

Environment	Conditions	Corrosivity level & Zone	Former AS/NZ 2312 Category	Mild Steel Corrosion Rate ¹	Example environments
Exterior Environment:	Mild	Low (C2) Medium (C3)	B C	1.3 - 25 25-50	Arid, urban, inland city Industrial, geothermal ² and coastal
	Severe	High (C4), Very high (C5-M, C5-I)	D E-M, E-I	50-80 80-200	Sea shore (calm) Sea shore (surf), offshore Islands ³ & or heavy industrial
	*Tropical	Very high (T)	F	80-200	High, humid and monsoonal locations and islands ⁴
Interior Environments	General Interior	Very low(C1) Low (C2)	A B	<1.3 1.3-25	Dry interiors (offices, shops) Minor condensation (warehouses, sports halls)
	Moderate Interior	Medium (C3) High (C4)	C D	25-50 50-80	High moisture (food processing plants, breweries, dairies) Significant contamination (swimmings pools)

*Tropical projects - It is recommended to speak to a Dulux Account Manager or call the advice line for all projects in Tropical locations

1. Corrosion rate is for uncoated steel ref AS2312.1.

2. Geothermal environments with a PH>5 and <9. For PH outside the consult Dulux.

3. Offshore islands that are not tropical include Waiheke, Stewart Island, Fraser Island etc.

4. Tropical islands include Australian Islands north of Mackay and Pacific islands such as PNG, Fiji, Samoa, Tonga.

Project Suitability - Steel

Use the following table to help identify where Fluoraset can be applied on steel projects, the system required and the Dulux Steel Shield™ warranty level available. Refer to the conditions information to determine the environment that your project will be exposed to.

Corrosion Category			Primer System		Top Coat	
Project Type	Environment	Conditions (incl Corrosivity Level)	Zincshield	E-Prime™	Fluoraset	
					Corrosion Warranty	Colour Warranty
Monumental	Exterior	Severe or Tropical (High to very high)	✓	✓	5 Years	30 Years
Monumental	Exterior	Mild (Medium)	✓ ¹	✓ ²	5 or 10 Years	30 Years
Monumental	Exterior	Mild (Low)	✓		10 Years	30 Years
Commercial Developments	Exterior	Severe or Tropical (High to very high)	✓	✓	5 Years	30 Years
Commercial Developments	Exterior	Mild (Medium)	✓ ¹	✓ ²	5 or 10 Years	30 Years
Commercial Developments	Exterior	Mild (Low)	✓		10 Years	30 Years
Residential	Exterior	Severe or Tropical (High to very high)	✓	✓	5 Years	30 Years
Residential	Exterior	Mild (Medium)	✓ ¹	✓ ²	5 or 10 Years	30 Years
Residential	Exterior	Mild (Low)	✓		10 Years	30 Years
Non Habitable	Exterior	Severe or Tropical (High to very high)	✓	✓	5 Years	30 Years
Non Habitable	Exterior	Mild (Medium)	✓ ¹	✓ ²	5 or 10 Years	30 Years
Non Habitable	Exterior	Mild (Low)	✓		10 Years	30 Years
All Projects	Interior	Moderate Interior (High)	✓	✓	5 Years	30 Years
All Projects	Interior	Moderate Interior (Medium)	✓ ¹	✓ ²	5 or 10 Years	30 Years
All Projects	Interior	General Interior (Very low to low)	✓		10 Years	30 Years

Fluoraset may be suitable for coastal environments <10m from the high tide line e.g. harbours (contact Dulux for advice) and is NOT suitable in strongly acidic or caustic environments so PH must be between 5 and 9.

Please refer to interior and exterior environments close to liquids for warranty implications where powder coatings may be in close proximity to liquids other than the sea.

1. In Mild (Medium) exterior and Moderate Interior (medium) environments a 5 year corrosion warranty is available with a Zincshield and Fluoraset system.

2. In Mild (Medium) exterior and Moderate Interior (medium) environments a 10 year corrosion warranty is available with a Zincshield, E-Prime and Fluoraset system.

* It is recommended to speak to a Dulux Account Manager or call the advice line on 13 24 99 for all C5 projects.

Interior and exterior environments close to liquids other than the sea

For powder coated assets close to liquids other than the sea, e.g. fences near swimming pools, fountains, bathrooms or furniture etc, please refer to the guidance below to understand the warranty limitations in these environments.

	¹ Chemically Treated	Clean tap, fresh or potable water	Salt Water	Other
Fluoraset	■	●	■	Seek advice from Dulux Call 13 24 99

1. Please note chemically treated water includes antimicrobial treatments, e.g. in pools, anti-corrosive chemicals, and soapy water in bathrooms and showers.

■ Where indicated Alumi Shield™ and Steel Shield™ warranties are available on areas >than 2m from the liquid (ie outside the splash zone).

● Where indicated Alumi Shield™ and Steel Shield™ warranties are available any distance from the liquid.

All Dulux powder products are NOT suitable in strongly acidic or caustic environments so PH must be between 5 and 9.

Alumi Shield™ and Steel Shield™ warranties are not available if the powder coating is immersed in any liquid.

Care and Maintenance

To ensure the life of your asset is maximised and to comply with Dulux warranty requirements, **a simple and regular maintenance program must be implemented and recorded** in line with the Dulux Powders Care and Maintenance brochure.

For more information refer to the Dulux Care and Maintenance brochure available at duluxpowders.com.au/tech-advice or call 13 24 99

Product Summary

Product Features

Product Features	
Warranties	Alumi Shield™ and Steel Shield™ available - refer to Warranty Benefits.
Technology	Ultra durable fluoropolymer thermosetting powder.
Look	Solid.
Finish	Satin Finish.
Colour range	Available in a range of 6 core colours. View the range in the Dulux World of Colour® Powder Coat Series Premium Colour Selector, on Aluminium Swatches, or online. Cards and swatches can be ordered from duluxpowders.com.au If you cannot find the colour you require Dulux can offer a Custom Colour Service. Call 13 24 99 or visit duluxpowders.com.au .
Standards met	Formulated to meet: AS 3715, AAMA 2603, AAMA 2604 and AAMA 2605
Product Benefits	
Colour retention	Superior colour retention.
Durability	Ultra durable finish.
Look	Long lasting subtle and neutral solid and pearlescent finishes.

Securing your Warranty

Request a Specification

Our dedicated and knowledgeable specification consultants can help simplify the specification process, saving you time and money by ensuring you achieve the best coating specification for the job. They can provide:

- Documented project specific specifications.
- Written confirmation of your project's eligibility for an Alumi Shield™ or Steel Shield™ warranty.
- Design, coating system and colour advice.

Call 13 24 99 or visit duluxpowders.com.au

Dulux Accredited Powder Coaters

Only Dulux Accredited Powder Coaters are able to issue our Dulux Alumi Shield™ and Steel Shield™ warranties after demonstrating their capability to meet stringent quality conditions and international standards. Warranties are only valid when applied by a Dulux Accredited Powder Coater to the warranty specification on recommended project types and conditions.



For information visit duluxpowders.com.au/accredited



The project: Perth Arena
Location: Perth, Australia

Photo credit: Cameron Chisholm Nicol/
Greg Hocking Photography

Advice Line

Our dedicated consultants can help simplify the specification process, saving you time and money by providing the right coating advice for your project.

Call 13 24 99

or visit www.duluxpowders.com.au

Offices

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