



AWS
ARCHITECTURAL WINDOW SYSTEMS

POWDER COAT ALUMINIUM FINISHING

/ BEAUTIFUL & DURABLE



A DURABLE PAINTED
FINISH APPLIED
ELECTROSTATICALLY
TO ALUMINIUM
EXTRUSION &
THEN CURED WITH
HEAT TO FORM A
COLOURED “SKIN”

DISCLAIMER

Whilst every effort has been made to ensure the accuracy of the data contained within this publication, Architectural Window Systems Pty Ltd (AWS) assumes no responsibility for errors or omissions or any consequences of reliance solely on this publication. AWS reserves the right to modify designs without notice – for the latest designs and information visit our website awsaustralia.com.au

Choosing a colour for your aluminium window and door systems requires careful thought. AWS window and door systems from the Vantage®, Elevate™ and ThermalHEART® range are all made to order so you have the freedom to choose the ideal colour for your project. But there is more to selecting a powder coat finish for your aluminium joinery than meets the eye, in addition to selecting the ideal colour you must also select a finish grade appropriate for the nature of the building and appropriate for the site environment.

AWS also provides the added flexibility in colour selection of enabling you to select dual colour when specifying products from the ThermalHEART® range. The unique joining method for AWS ThermalHEART® profiles enables you to select different finish options for internal and external elements, a great option to ensure the colour pallet matches interior furnishing and external cladding.

AWS - A QUALICOAT APPROVED ALUMINIUM POWDER COATER

Qualicoat is Australia's only licensing and audit system for the entire powder coating process on architectural aluminium.

AWS is a Qualicoat-approved aluminium powder coater. When dealing with a Qualicoat-approved aluminium powder coater, you have assurance the coating will comply with Australian and International Standards and the Building Code of Australia.

The Qualicoat process includes tested and approved pre-treatment chemicals, powders suitable for Australian conditions and confirms the technical competencies and workmanship of the licenced applicator.

The international Qualicoat system is administered by the Australasian Institute of Surface Finishing. Qualicoat approves powder manufacturers' products and pretreatment systems. Qualicoat also licences applicators and NATA-approved auditors

conduct random audits on applicators twice a year. The Qualicoat licensing system is used internationally in 39 countries. It is applicable for both local and imported aluminium products and ensures compliance of all products with the requirements of Australian Standard AS3715. Class 1.5 powders are the minimum grade for Australian conditions.



/ Beach Pavilion. Architect: Clare Design. Builder: Clare Build. Windows: Window Makers. Photographer: Peter

POWDER COAT ALUMINIUM FINISHING
COLOUR SELECTION

Choosing a colour for your window and door systems requires careful thought. All Vantage and Elevate™ window and doors are made to order so you have complete freedom to choose the perfect colour and finish for your project.



STANDARD COLOURS

	Pearl White Gloss 1004	<input type="radio"/> <input checked="" type="radio"/>		APO Grey Satin 1001	<input type="radio"/>
	Primrose Gloss 1005	<input type="radio"/>		Anotec Natural Pearl Matt 1009	<input type="radio"/> <input checked="" type="radio"/>
	Stone Beige Matt 1006	<input type="radio"/>		Woodland Grey® COLOURBOND® Matt 1008	<input type="radio"/>
	Paperbark® COLOURBOND® Matt 1012	<input type="radio"/> <input checked="" type="radio"/>		Monument® COLOURBOND® Matt 1011	<input type="radio"/>
	Dune® COLOURBOND® Matt 1010	<input type="radio"/> <input checked="" type="radio"/>		Custom Black Matt 1002	<input type="radio"/>

SELECTED PEARLS

	Citi® Pearl Matt 3002	<input type="radio"/>		Silver Medallist Pearl Satin 3005	
	Ultra Silver Pearl Gloss 3006	<input type="radio"/>		Stormfront Pearl Matt 3004	<input type="radio"/>
	Precious Silver Pearl Kinetic Pearl Satin 3007	<input type="radio"/>		Charcoal Metallic Gloss 3001	<input type="radio"/>

Important Note: Finishes shown on these pages are a guide only and are not accurate representations of actual powder coat finishes. Please request powder coat swatches from your local fabricator for colour matching.

KEY ThermalHEART® Single Finish/External Colour ThermalHEART® Internal Colour Colour Matched Hardware Available

POWDER COAT ALUMINIUM FINISHING
COLOUR SELECTION

POPULAR COLOURS

	<p>Silver Grey Matt 2021</p>		<p>Rivergum Beige Gloss 2018</p> <p><input type="radio"/> <input checked="" type="radio"/></p>
	<p>Notre Dame Gloss 2014</p> <p><input type="radio"/> <input checked="" type="radio"/></p>		<p>Surfmist[®] COLOURBOND[®] Matt 2022</p> <p><input type="radio"/> <input checked="" type="radio"/> <input checked="" type="radio"/></p>
	<p>Charcoal Satin 2003</p>		<p>Classic Cream[™] COLOURBOND[®] Matt 2004</p>
	<p>Berry Grey Satin 2001</p> <p><input type="radio"/></p>		<p>White Birch Gloss 2026</p> <p><input checked="" type="radio"/></p>
	<p>Ironstone[®] COLOURBOND[®] Matt 2010</p>		<p>Magnolia Gloss 2012</p> <p><input type="radio"/> <input checked="" type="radio"/></p>
	<p>Dark Grey Matt 2005</p> <p><input type="radio"/> <input checked="" type="radio"/></p>		<p>Doeskin Satin 2006</p> <p><input type="radio"/> <input checked="" type="radio"/></p>
	<p>Blue Ridge[®] COLOURBOND[®] Matt 2002</p>		<p>Sandbank[®] COLOURBOND[®] Matt 2019</p> <p><input type="radio"/></p>
	<p>Windspray[®] COLOURBOND[®] Matt 2024</p> <p><input type="radio"/></p>		<p>Pottery Satin 2017</p> <p><input type="radio"/> <input checked="" type="radio"/></p>
	<p>Wilderness[®] COLOURBOND[®] Matt 2023</p> <p><input type="radio"/></p>		<p>Headland[®] COLOURBOND[®] Matt 2013</p>
	<p>Pale Eucalypt[®] COLOURBOND[®] Matt 2015</p> <p><input type="radio"/></p>		<p>Manor Red[®] COLOURBOND[®] Matt 2013</p>
	<p>Basalt Matt 2027</p>		<p>Hammersley Brown Satin 2008</p>
	<p>Jasper[®] COLOURBOND[®] Matt 2011</p>		<p>Wallaby Satin 2028</p>

POWDER COAT ALUMINIUM FINISHING POWDER OPTIONS

POWDER GRADES

The powders we use to powder coat our aluminium joinery are supplied by industry leaders Dulux® and Interpon®. Within both the Dulux® and Interpon® range there are number of powder grades suitable for use in varied applications and with varying warranty terms.

DULUX POWDERS



Fluoraset® is a fluoropolymer powder coating designed specifically for applications where colour and gloss retention are critical. Fluoraset® is formulated with an advanced fluoropolymer resin technology and high performance pigments to conform to the AAMA 2605 (specification for superior performing organic coatings) performance standard.

In most cases, Fluoraset® can match other fluoropolymer liquid systems with the advantage of significantly improved mar resistance. Fluoraset® has been developed for use on architectural aluminium, including window and door frames, panel work, sunscreens and other exterior metal features where colour and gloss retention are critical.



Duratec® is a thermosetting TGIC free powder coating designed specifically for architectural applications where colour and gloss retention is critical. Duratec® is formulated with advanced polyester resin technology and high performance pigments to conform to the performance requirements of AAMA 2604.

Duratec® has superior gloss and colour retention compared with standard polyester powder coatings. It has been developed for use on architectural aluminium, including window and door frames, panel work and other exterior metal features on commercial buildings.



Duralloy® is a tough thermosetting powder coating that exhibits decorative and durable characteristics suitable for a broad range of interior and exterior product applications where excellent overall performance is required. Duralloy® has been formulated especially for residential developments equivalent to BCA Volume 2, class 1 and 10 buildings that are up to 3 floors from the ground.

INTERPON POWDERS



Interpon Fluoromax® D3020 is a premium durability architectural product and is the highest grade powder coating available under the Interpon brand. Due to the stringent performance requirements that Interpon D3000 meets the range is available in nearly all matt and selected satin finishes

Interpon D3020 Fluoromax® is a hyper durable architectural powder coating formulated to exceed the performance standard AAMA2605-11.



Interpon Ultrivia D2015 coatings are specially designed for the architectural and construction industry and are recommended for internal and external applications. Available in a wide range of colors and effects, these powders meet the requirements of global "superdurable" standards such as AAM2604-13.



Interpon D1000 is a high durability architectural powder coating developed exclusively for residential applications. Interpon D1000 powder coatings provide high level durability and weathering performance guaranteed for 10 years on all residential applications equivalent to Volume 2 (pertains primarily 1 and 10 buildings) of the BCA 2011.

POWDER COAT ALUMINIUM FINISHING SPECIFICATION CONSIDERATIONS

ENVIRONMENTAL CONSIDERATIONS

Environmental conditions in different site location can vary greatly and this will affect the performance of various powder coat finishes. So it is vital that before specifying a given powder coating, the environmental influences on the project are understood. The resistance of each powder coating to the physical and chemical extremes of these climates determines the most suitable product.

Mild (to Moderate)

- Remote from coastal, heavy industrial or tropical locations
- With very light marine proximity, such as sheltered bays which are well away from coastlines
- Sheltered from marine coastal locations or from industrial fallout

Tropical

- In high humid locations, typically 65% – 100% all year round
- Remote from coastal activity

Severe

- In marine locations, directly in the path of sea spray
- In heavy industrial locations

Extreme

Some environments are so extreme, that the performance of any surface finish may be compromised. For severe environments, whether they are marine and/or industrial, we recommend that you contact AWS before specifying any powder coating finish, so we can consult with our powder suppliers to ensure the site meets with their service and warranty conditions.



PROJECT CONSIDERATIONS

Project considerations have a significant impact on the specification of powder coating, particularly due to the significant variation in the ability to care for and maintain powdercoated finishes in different building types. Our powder suppliers set minimum requirements for types of powder which can be used on certain classes of buildings to ensure compliance with warranty conditions. The reasoning for this is as follows:

- Residential properties are typically more 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.

CARE & MAINTENANCE

The effects of UV-light, pollution, dirt, grime and salt deposits can all accumulate on your powder coated surface over time. To extend the effective life of powder coating and protect any warranty requirements that may exist, a very simple regular maintenance program should be implemented for the removal of any residues. As a general rule, cleaning should take place every six months. However, in areas where pollutants are more prevalent, especially in coastal or industrial regions, a cleaning program should be carried out on a more frequent basis (i.e. every three months).

To clean your powder coated surface:

1. Carefully remove any loose deposits with a wet sponge
2. Use a soft brush (non abrasive) or cloth, and a mild household detergent solution to remove dust, salt and other deposits.
3. Rinse off with fresh water

Detergents that recommend the use of gloves when handling should be avoided as this is a good indication that the detergent is harsh and therefore, unsuitable for cleaning your powder coating.

POWDER COAT ALUMINIUM FINISHING
QUICK REFERENCE GUIDE

QUICK REFERENCE GUIDE

The table below is designed to help you understand which powdercoat range to select when specifying powder coat finishes on your aluminium windows and doors. This table uses project type and environmental conditions as influences for powder selection to ensure compliance with the terms of powder suppliers warranty conditions.

Project Type	Environment	Recommended AAMA Standard	Powder Coating Range
Monumental	Mild, Tropical or Severe	AAMA 2605	Dulux Fluoraset® Interpon Fluromax®
Prestigious Commercial Development	Severe	AAMA 2605	Fluoraset® Interpon Fluromax®
Prestigious Commercial Development	Mild or Tropical	AAMA 2604	Dulux Duratec®/Electro™ Interpon Ultrivia™
Commercial Development (>3 levels)	Severe	AAMA 2604	Dulux Duratec®/Electro™ Interpon Ultrivia™
Commercial Development (>3 levels)	Mild or Tropical	AAMA 2604	Dulux Duratec®/Electro™ Interpon Ultrivia™
Commercial Development (>4 levels)	Mild, Tropical or Severe	AAMA 2604	Dulux Duratec®/Electro™ Interpon Ultrivia™
Residential (>3 levels)	Severe	AAMA 2604	Dulux Duratec®/Electro™ Interpon Ultrivia™
Residential (<4 levels)	Mild or Tropical	AAMA 2604	Dulux Duratec®/Electro™ Interpon Ultrivia™
Residential (<4 levels)	Standard	AAMA 2603	Dulux Duralloy® Interpon D1000



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