



## How a powder coating warranty works

When a powder coating warranty is provided to any powder coating application, this means that the powder, the application, the applicator, and the final coating are all up to the rigorous quality and performance requirements of the powder coating provider. These requirements are set based on national and international industry standards for powder coating.

A powder coating warranty is therefore only provided when:

1. The powder is manufactured and performs to certain requirements (for particle size, pigmentation, specific gravity, etc), based on a master standard
2. The powder coating is applied by an approved applicator
3. The application is appropriate for the specification (architectural powder coating on aluminium sheet, heavy duty powder coating for industrial steel)
4. The final coating passes the quality control tests for colour, cure, and finish.

There is no general "powder coating warranty" awarded to any powder coating.

Most manufacturers provide different warranties for different applications and markets, and warranties will be longer or shorter based on the application methods used.



# Understand your powder coating warranty & industry standards

When you specify a powder coating there are several considerations you need to make, and standards that you need to understand, in order to avoid the pitfalls of overconfidence.

Powder coating is a high performance, durable, and effective coating, but that does not mean it is one-size-fits-all. You need to be aware of the limitations and standards of your own application before blindly opting for powder coating.

You also need to understand what the powder coating warranty entails.

It may provide a seal of quality assurance and customer satisfaction, but if you have specified incorrectly you may not receive the warranty you were after.



# Dulux Warranty Alumi Shield™

Dulux Powder Coatings are an ideal choice for the long term protection of architectural aluminium items for your next project, and provide assurance through the issue of Alumi Shield™ Warranty



The Dulux Alumi Shield™ warranties are available for warranty grade Dulux Powder coat products on architectural grade aluminium. Example items made from architectural aluminium include windows, louvres, doors, balustrades, decorative sheet amongst others.

## Warranted Performance

The Alumi Shield™ Warranty is made up of two key components, a colour warranty (for fade and chalking) and a durability warranty (film integrity).



**The Alumi Shield™ Colour Warranty is your assurance that the colour integrity will be maintained.**  
**It is made up of two components:**  
**1 Fade**  
**2 Chalk**



**The Alumi Shield™ Durability Warranty is your assurance of film integrity.**  
**The powder coating will not peel, crack or flake for the warranty period from the date the product is applied to the metal.**

Dulux Alumi Shield™ Warranties are your assurance that the coating will not:

**1 Fade (colour)** – Colour fade testing will give a delta E (Hunter) laboratory reading less than five units from the original colour. In accordance with ASTM D2244.

**2 Chalk** – 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 is a film integrity assurance that products will not Peel, crack or flake for the warranty period from the date the Product is applied to the Metal.

Warranties are only valid when applied by a Dulux Accredited Powder Coater to the warranty specification on recommended project types and conditions and maintained within the Dulux recommended Care and maintenance guidelines.

All Dulux premium powder coat products are backed by product specific Alumi Shield™ warranties. Below is an overview of the warranty periods by product available from Dulux.

	Warranty	Electro	Duratec	Precious	Duralloy
Alumi Shield™ Warranty	Aluminium Durability	20 Years	20 Years	10 Years	10 Years
	Aluminium Colour	15 Years	15 Years	10 Years	10 Years

## Project Suitability

It is important to define your project correctly to ensure the correct product is specified and the performance and warranty is able to be gained for your project.

Both project type and the environment (conditions) will impact on the exposure of the powder coat to elements such as UV, dirt and salt. For instance, marine and coastal environments are exposed to winds and sea salts, which have a long-term impact on the performance of coating systems due to erosion and weathering, and commercial projects will be exposed to greater environmental impacts, whether they be the usage of the environment or the height of the building.

To ensure products are fit for these environments Dulux recommends suitable products based on the AS3715 and AAMA testing standards. These standards provide a benchmark of product quality that are an assurance that your asset will be protected by a product fit for purpose.

### To define projects we utilise three key sources:

1. The building classifications under the Building code of Australia (BCA)
2. Industry standards for powder coatings – Primarily AAMA and AS3715
3. Environmental condition utilising AS4312 and ISO12944 Atmospheric corrosivity zones in Australia as a guide.



# How industry standards apply to powder coating warranties

When a powder coating warranty is awarded, it is certifying that the coating will meet national and international performance criteria, as laid out in the Industry Standards. Performance requirements are based around building code requirements and environmental influences (UV, humidity, rainfall, exposure to sea salts, etc). In Australia, these performance standards are based on local and international exterior exposure testing at Allunga, QLD and South Florida, USA; these sites are selected for their high average exposure to the range of environmental influences. Standards for powder coating include:

## **AAMA Global Standards**

AAMA (American Architectural Manufacturers Association) standards are the globally recognised specification, performance requirement and test procedure for organic coatings on aluminium extrusions and panels.

The three AAMA standards in this market are: AAMA 2605-11 – Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminium Extrusions and Panels; AAMA 2604-10 – Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminium Extrusions and Panels; AAMA 2603-02 – Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminium Extrusions and Panels.

## **Building Code of Australia**

The Building Code of Australia (BCA) provides a set of technical requirements for all areas of building, from design to construction.

Developed by the Australian Building Codes Board (ABCB) on behalf of the Commonwealth, State and Territory Governments, the BCA is referred to as the building regulation in all States and Territories.

## **Australian Standards**

Standards Australia is an independent, not-for-profit organisation recognised by the Australian Government as the peak non-government Standards body in Australia.

AS3715 (Metal Finishing – Thermoset powder coating for architectural applications of aluminium and aluminium alloys) sets out the requirements for pretreatment, application and performance of powder coatings on aluminium substrates.