

#### INTRODUCTION

The two finishes for extruded aluminium commonly available in Australia are powdercoating or anodising. The Finish Features and Comparison table lists the comparisons. For more information refer to the Powder Coating Technical Summary table in this guide, prepared by AAF, Lidco's preferred applicator.

### **POWDER COATING**

Powder coating is the method of applying dry paint in the form of a powder to aluminium. Once oven cured, it becomes a solid and tough coating which adheres to the surface of the aluminium as if it were a 2-pack wet paint.

Powder coatings are available in a multitude of colours, with various lustres, textures and special effects. The extensive range of options make powder coating a versatile and popular choice.

To simplify the selection of powder coat finishes the colour selections offered in the Colorbond Low Sheen range of colours are an ideal choice for residential and commercial building projects. These popular colours are widely used in the building industry and the selection is distinctive enough to provide a generous choice of colours.

In order to minimize any imperfections that regularly occur in the manufacturing, delivery and installation process it is better to select lighter rather than darker colours and a lower

sheen finish rather than a glossier one.

### **ANODISING**

An aluminium anodised finish is the result of a controlled formation of an oxide layer, which is much harder, more durable and about a thousand times thicker than the thin oxide layer naturally formed on aluminium. It has excellent tolerance in coastal environments and its appearance proves popular in architecturally designed features as well as window and door suites.

Anodising gives metal extrusions an extremely long life and offers significant economic advantages through maintenance and operating savings. As the finish reacts with the aluminium it is integrated with the underlying aluminium for total bonding and unmatched adhesion.

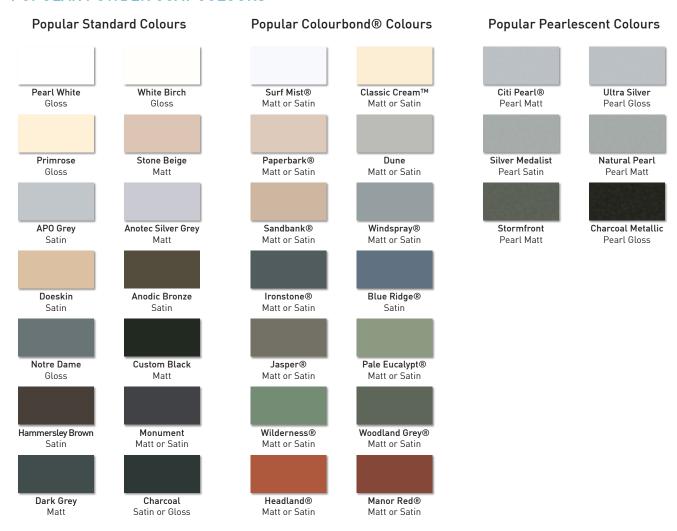
Colour anodising metal provides depth of colour with a brilliant metallic lustre. There are several different processes which can be undertaken to achieve the desired finish and colour. When specifying a finish it is essential that you consider the application, whether internal or external. When used externally also take into account the weather conditions of the surrounding location.



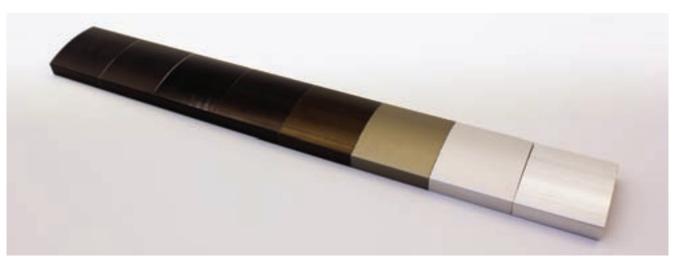
1300 663 848 techsupport@lidco.com.au www.lidco.com.au



## POPULAR POWDER COAT COLOURS



### POPULAR ANODISED COLOURS



1300 663 848 techsupport@lidco.com.au

36



# FINISH FEATURES AND COMPARISON

Feature	Anodising	Powdercoating	
What is it?	Conversion of outer layer of aluminium substrate by electrochemical process	Application of coloured polymer particles atop aluminium substrate, which is then heat cured	
Number of available colours	Up to 30 combinations	Hundreds of options available	
Typical abrasive hardness / traffic resistance	Excellent – Extreme	Good – High	
Performance in coastal / salt air environments	Exceptional	Good	
Why choose?	Modern designer "look" Enhances natural metal lustre	Versatile choice – able to match many other building paint colours	
Appearance compliments other materials	Stainless steel, stone, timbers, glass, other natural materials and other metals	Other building products e.g. Colorbond, surface paint colours	
Appearance	Clear – translucent, metal lustre often noticeable	Opaque, colour of powder	
Lustres available	Matt, satin, bright	Matt, low sheen, satin, gloss	
Other surface effects available	Brushed, polished	Metallic, pearlescent	
Exterior UV suitability	Some colours external Other colours internal only	Most colours external Few colours internal only	
Cost?	Dependant on job size and grade chosen, usually 3-5% of final product	Dependant on job size and grade chosen, usually 3-5% of final product	
Weathering properties - external grades	Excellent resistance	Excellent resistance (when suitably pre-treated)	
Possible wear rates - non-abrasive	0.0–0.1 um / year	0.3-2.0 um / year	
Materials to avoid contact	Alkaline and acid materials, especially at building stage	Strong alkaline, strong acid materials and organic solvents	

1300 663 848 techsupport@lidco.com.au

www.lidco.com.au



# POWDER COATING TECHNICAL SUMMARY

	Dulux	Duralloy 272	Duratec 900	Duratec LX905	Fluoro FP964	
Powder Products/Manufacturers	Interpon	D610	D2010	D2015	D3000 Fluoromax	
Conditions	Coatings Grade	High Durability	Super Durable	Super Durable Enhanced	Ultra Durable	
Licensed Applicator Level required to pre-treat and process this powder class	LICENSED APPLICATOR	AAF is Licensed to this HD Level	AAF is Licensed to this SD Level	AAF is Licensed to this SDE Level	AAF is Licensed to this UD Level	
Building and Location Warranty Pre-approval		Pre-approval Required	Pre-approval Required	Pre-approval Required	Pre-approval Required	
Building: No. Floors		1-3 Flrs. & Single Occupancy	Any Number	Any Number	Any Number	
Building Code of Australia (BCA) Class		1 or 10	All Classes	All Classes	All Classes	
Distance to Saltwater		Greater than 100m	Greater than 10m	Greater than 10m	Greater than 10m	
Atmospheric Classifications (AS3715)		Mild, Tropical Only	All Classifications	All Classifications	All Classifications	
Suitable substrates		Aluminium Only	Aluminium Only	Aluminium Only	Aluminium Only	
Pretreatment, Rinse and Process Control	<b>?</b> #	Qualicoat Approved	Qualicoat Approved	Qualicoat Approved	Qualicoat Approved	
Maintenance Requirement		Refer AS3715	Refer AAMA 610	Refer AAMA 610	Refer AAMA 610	
AAF Warranty Plus Offering						
Colour & Gloss	Sur A Co	Not Offered	10	10 or 15	20	
Integrity		Not Offered	10	15	20	
Integrity for AAF EverCoat™ Pre-treatment		Not Offered	Extra 5 Years	Extra 5 Years	Extra 5 Years	
Performance Specifications						
Pigments and Binders	PIGMENTS & BINDERS	Organic Pigments	Ceramic Pigments	Ceramic Pigments and High Binder Ratio	Ceramic Pigments and Highest Binder Ratio	
Powder Satisfies: Australian Standard	NOUSTRY STANDARDS	AS3715	AS3715	AS3715	AS3715	
American Architectural Manufacturers Associated Standard		AAMA2603	AAMA2604	AAMA2604	AAMA2605	
AAMA Test - 45° Florida Exposure	W.	1 Year	5 Year	5 Year	10 Year	
AAMA Test - Gloss Retention	GLOSS	N/A	Min. 30%	Min. 30%	Min. 50%	
AAMA Test - Colour Retention	COLOUR	N/A	less than 5 Delta E	less than 5 Delta E	less than 5 Delta E	
AAMA Tests - Salt spray and Humidity	SALT SPRAY	1,500 hrs	3,000 hrs	3,000 hrs	4,000 hrs	

1300 663 848 techsupport@lidco.com.au

www.lidco.com.au