



## Architectural – Matt and Textured Matt Range

**Product Description:** Patina PowderLUX® finishes are premium architectural coatings meticulously crafted to deliver durability with visually stunning results across a variety of surfaces. With a diverse selection of colours, textures, and effects, these finishes are perfect for enhancing both indoor and outdoor spaces. Utilizing a patented powder coating process, Patina PowderLUX® finishes ensure exceptional performance and aesthetic appeal in architectural applications such as aluminium profiles, doors, balustrading, facades, urban furniture, fences, gates and related steel structures. Whether for exterior or interior use, Patina PowderLUX® finishes promise outstanding durability and decorative charm.

**Colour Availability:** Patina PowderLUX® comes in a range of 30 stock colour effects, in both Matt and Textured Matt effects, for more details please contact Powdertech Corby.

### Product Properties:

Chemistry	Thermosetting Polyester cured with multifunctional curing agent (TGIC Free)
Application	Electrostatic Corona
Coating Thickness	Multi-layer system film thickness should be in the range between 90-140 microns (µm), with a minimum total thickness of 90µm.
Gloss	8% - 30% Depending on product.
Colour	Visual agreed standard. Note that colour variation is a feature of PowderLUX.
System Performance	Meets performance requirements of BS EN 12206 on Aluminium. Meets performance of EN 13438 for galvanized steel. Mild steel performance is subject to an agreed manufacturing process.
Range	PowderLUX® Matt & Matt texture version

### Substrate Preparation:

Using the appropriate surface treatment is crucial and is based on the substrate type and desired performance. Prior to coating, the surface must be thoroughly cleaned to remove any oxidation, oil, grease, or other contaminants.

Powdertech will advise the appropriate pretreatment based on the desired level of corrosion resistance performance. If necessary, corrosion resistance can be further improved by using a suitable primer system in addition to the pretreatment process.

Pretreatment		Aluminium	Steel	Galvanized Steel
Chemical	Cr-Free (Zr, Ti, Oxalanes or alternatives)	✓		✓
	Zinc Phosphate		✓	✓
Mechanical	Grit blast (SA2.5)			✓

Mechanical tests unless otherwise specified, all tests were carried out under laboratory conditions on 0.8mm aluminium panels prepared to the specifications described in ISO 9227. A powder coating DFT of 90-130 microns was used.

#### Mechanical Tests

Flexibility	ISO 1519 Cylindrical Mandrel	Pass >5mm
Impact	ASTM D 2794	>25kg cm (N)
Adhesion	ISO 2409 2mm Crosshatch	Pass Gt0
Hardness	ISO 2815 Buchholtz Indentation	>80
Cupping	ISO 1520 Erichsen Pass	>5mm

#### Corrosion and Durability

Boiling Water	2 hours boiling water	No defects or detachments
Salt Fog	Acetic Acid ISO 9227	After 1000 hours, per 10cm scratch: Total Corrosion <4mm
Mortar Resistance	ASTM C207	Easy to remove. No staining
Humidity	ISO 6270-1	Pass. 1000 hours without any effect
Sulphur Dioxide	Kesternich Test ISO 3231	After 24 cycles, infiltration <1mm from scratch

#### Weathering

Natural	Florida Sun Test ISO 2810	After 12 months exposure, residual gloss > 50% (Visual)
Accelerated	Xenon SUN Test ISO 11341	After 1000 hours, residual gloss > 50% (Visual)
	UV-B 313 Test ISO 11507	After 300 hours, residual gloss >50% (Visual)
Colour Fastness	Natural Accelerated Florida Sun ISO 2810 Test	Colour differences ( $\Delta E$ ) within tolerances specified by Qualicoat. (Visual)
	Xenon SUN Test ISO 11341	

#### Chemical Resistance

The range demonstrates excellent resistance to various substances, including water, brine, hydrochloric acid, dilute sulphuric acid, acetic acid, phosphoric acid, dilute alkalis, peroxides, bleach, alcohols, and urea. However, it's important to note that some cleaning products may potentially damage the appearance of the coating. It's advisable to test a small inconspicuous area first before using any cleaning product on the surface.

#### Fire Resistance

It is anticipated that PowderLUX will achieve a rating of A2, s1-d0 based on the use of the use of conforming products and a standard application process.

This will be confirmed when the range has been tested to the requirements of EN 13823 and ISO 1716 and is classified as A2-s1,d0 according to EN 13501-1.

#### Local repair and maintenance:

Regular cleaning is recommended to maintain the appearance and durability of the Patina PowderLUX® finish, clean the coated surfaces periodically using mild detergent and water.

Local repair can be undertaken but for extensive repair we recommend that material is returned for stripping and recoating of the material.

Separate datasheets covering these areas are available on request.

**Project Approval:** The specified Patina PowderLUX® finish coating must be approved by the architect, specifier, end client, or project manager before commencement of work, using the Patina PowderLUX® specified description name and Patina PowderLUX® reference number on any project drawings (Available from Powdertech).  
**Your project will include a bespoke project and product data sheet.**

**Warranty:** The Patina PowderLUX® finish coating includes the applicator warranty covering colour, gloss, adhesion and corrosion subject to the conditions of maintenance and repair as detailed in our terms and conditions.

**Approved Applicator:** Patina PowderLUX® effects are only available through specified approved applicators. The approved architectural applicator for the UK and Ireland market is:

**Powdertech (Corby) Ltd,  
Cockerell Rd,  
Phoenix Parkway,  
Corby, Northants.  
NN17 5DU  
Tel: 01536 400890**

**Email: [richard.b@powdertechcorby.co.uk](mailto:richard.b@powdertechcorby.co.uk)  
[www.powdertechcorby.co.uk/powderlux](http://www.powdertechcorby.co.uk/powderlux)**

## **Patina Powder Coat & PowderLUX©**

Bring patina powder coating into your next residential & architectural project without using expensive copper, liquid paint, sublimation, or chemical induction.

Whether you're a product engineer, design house, architect or specifier our VOC-free, powder coating effects provokes conventional thinking about patina coating metal. Our innovative technique & signature colours mimic traditional liquid & chemical looks without all the headaches of achieving them. The PowderLUX© line delivers outdoor super durability with distressed finishes from aged copper, rust, blackened steel, brushed bronze & glazed terracotta effects.



**“AGING WITHOUT THE WAITING”**