



Overview

Developed to reflect metallic oxidation and natural change The Evolution Collection uses polyester resin systems to achieve excellent exterior durability and gloss retention.

Evolution finishes can be applied to aluminium, mild steel, galvanized steel and most metal substrates. When used in combination with chrome-free pre-treatment Evolution gives a long-lasting & hard-wearing finish.

Approvals

Evolution range includes powders of different properties defined by one or more of the approvals below.

Qualicoat: P-0301, P-0472, P-0560, P-0599.

Meets Qualicoat architectural powder coating specifications. PRA analysis report, 77780-327b, November 2018.

Properties

Applied gloss @ 60°: ISO2813. Tactile matt finish, 5% to 35% depending on finish chosen.

Applied film thickness: > 80 microns.

Process

Pre-treatment:

Aluminium. Titanium-Zirconium (TiZr) non-chrome 6-stage pre-treatment.

Galvanized steel. Silane (Oxsilan) non-chrome 8-stage pre-treatment.

Powder application:

Corona discharge system.

Applied under ISO 9001: 2015 Quality Management System. Approval Nr: LRQ 10267185

Key Points

- Excellent weather resistance
- Tactile finish
- **A2-s1, d0 Fire compliant**
- All powders are Qualicoat class 1 or class 2.
- Conforms to BS EN 12206-1 and Qualicoat specifications 2021
- No rust stain, copper leaching or unsightly run-off.
- Excellent visual detail.

Test results

PRA World BS EN 12206-1 and Qualicoat specification test results available as a separate document.

Reaction to fire category: A2-s1, d0. System Laboratories report Nr 342-B, September 2023

Other independent test results.

Test	Requirement	Result
Pull off adhesion test - ASTM D 4541. PASS	Adhesive strength >6N per 25mm width. No inter-coat adhesion failure.	No inter-coat adhesion failure observed. The average peak force of the Evolution coating system was 6.4MPa.
Nick Welton Polymer & Coatings Consultancy Ltd. Report 46 July 23 rd 2018		
Test	Requirement	Result
High-pressure Jet wash PASS	ISO16925 60 sec impingement at 90°	No coating detachment
Test	Requirement	Result
Fire Resistance UNE-EN 13501-1: 2007 "Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests"	Combustibility. "A" Smoke Emission – "s" Release of droplets or particles – "d"	A2-s1-do

Product specific data

Project specific data

Warranty

For C2 and C3 environments: 25-year warranty for gloss, colour and adhesion is offered as standard.

For C4 and C5I & C5M environments: Guarantees are conditional on project location, environmental conditions and pre-contract approval.

Warranties are offered in conjunction with Powdertech standard terms and conditions and a documented cleaning and maintenance programme.

Please note:

Whilst every care has been taken to provide accurate information this document is for guidance only and should be read in conjunction with other data sheets where applicable.

This document forms no part of a contract. Any warranty is subject to individual review.