

Polyester is the most commonly specified resin system used in powder coatings. It is manufactured in a range of grades to suit different end-use applications. Polyester powder coatings can be applied to our **aluminium street sign frames and posts**, to our mild steel **quick-fit and stanchion frames** for temporary road signs and our **galvanised steel posts**. When combined with a pre-treatment process, polyester provides a durable, long-lasting, and wear-resistant finish.



Process:

- Pre-Treatment - Aluminium: Titanium–Zirconium (TiZr) non-chrome, 6-stage pre-treatment system.
- Galvanised Steel: Silane (Oxsilan) non-chrome, 8-stage pre-treatment system.

Application - Following pre-treatment, the substrate is powder coated manually. As the powder exits the spray gun, it is electrostatically charged using a corona discharge system which then attract to the earthed metal substrate, ensuring uniform deposition through electrostatic attraction. Once completed, the items are then transferred to a curing oven.

Curing - During the curing process, the powder melts, flows and chemically cross-links to form a continuous film. Once cooled, the coating is fully set and achieves its specified mechanical and performance characteristics ready for inspection and testing.

Key Features:

- Outstanding resistance to weathering
- Excellent colour retention and batch-to-batch consistency
- GSB and AAMA certified
- Approved to Qualicoat Class 1 and Class 2 standards
- Extensive colour selection

Item	Description
Gloss Level	Semi-Gloss 55-70% (60° angle, ISO 2813 – smooth finish)
Dry Film Thickness	Minimum 60 microns
Weathering Performance	ISO 16474-1:2013 ≥50% residual gloss after 1000 hours
Adhesion	ISO 2409 - Classification GT0
Corrosion Resistance	AASS, 1000 hours, ISO 9227 (no blistering after 1000 hours)
Colour Stability	Colour change (ΔE) in accordance with Qualicoat Appendix A7 requirements (if applicable)
Humidity Resistance	ISO 6270-2 (1000 hours, no blistering)
Flexibility	ISO 1519 (Pass at 5mm)
Pressure Test	No defects or delamination after 2 hours