



Technical Data Sheet – DecorShield™

Issue Date: July 2025 · Climate Powder Coatings NZ

Product Description

DecorShield™ is a smooth-satin, TGIC-free interior polyester powder coating engineered for architectural wall, ceiling and fit-out components that demand an even gloss aesthetic. Formulated for aluminium, galvanised steel and panel substrates it provides uniform colour, tight batch-to-batch gloss control and excellent edge coverage on substrates. Manufactured locally by Climate Powder Coatings, DecorShield supports accelerated project schedules while meeting Green Star interiors requirements.

Key Features & Benefits

- **Single-bake cure — 180 °C / 10 min metal temperature**
(standard architectural line profile)
- Smooth satin finish (60° gloss 62 ± 5 GU) with low orange-peel
- TGIC-free, No Added VOC's
→ no solvent-extraction permits required
- Excellent colour consistency across large extrusion or panel runs
- Optional ISO 22196 antimicrobial version for healthcare interiors

Application Method

- Suits corona or tribo electrostatic guns (60–100 kV, 10–20 µA)
- Reclaim blend up to 20 % fines

Recommended Substrates

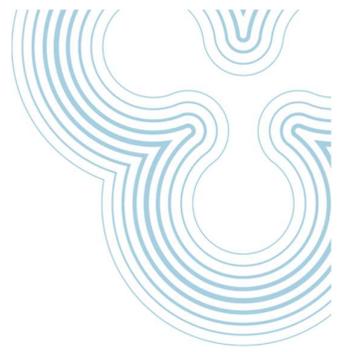
- Aluminium extrusions, sheet and trims
- Mild or galvanised steel up to 20 mm

Cure Schedule

Metal temperature	Time
180 °C	8 minutes
190 °C	6 minutes
200 °C	2 minutes

Typical Properties (60 µm film on 0.6 mm Bonderite-treated steel)

Property	Method	Typical result
Gloss 60°	ASTM D523	62 ± 5 GU
Adhesion (cross-hatch)	ASTM D3359	Rating 0 – no loss
Impact (direct)	ASTM D5420	Pass < 9 N·m (80 in lb)
Pencil hardness	ASTM D3363	HB-F – no rupture



Conical mandrel	ISO 6860, 5 mm Pass	
Humidity 240 h	ASTM D2247	No blister, no loss
Salt-spray 500 h	ISO 9227	≤ 2 mm creep

Recommended Film Build

60 – 90 µm

Coverage

≈ 8–10 m² kg⁻¹ at 70 µm average film.

Specific Gravity

1.30 – 1.70 (colour-dependent)

Storage & Shelf Life

Store unopened cartons **5 – 30 °C**, dry.

Shelf life **18 months** when stored < 25 °C.

Health & Safety

DecorShield™ is TGIC-free and contains no classified hazardous solvents. SDS available. Use appropriate PPE and extraction when spraying.

DecorShield™ – Interior Aesthetics. Local Support. Reliable Performance.

For application support or custom colour development contact:

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