



## Technical Data Sheet – SmartCure™

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### Product Description

SmartCure™ is a fast-curing, low-bake polyester powder coating developed by Climate Powder Coatings for use on a wide range of substrates and line configurations. Manufactured locally in New Zealand, SmartCure is designed to reduce energy use and increase line throughput while maintaining excellent film performance and finish.

### Key Features & Benefits

- Cures at 160°C for 10 minutes or 180°C for 2 minutes
- Reduces energy consumption and gas usage
- Supports increased line speed and throughput
- Ideal for heat-sensitive substrates and heavy-gauge metals
- Available in Satin Smooth and Fine Texture finishes
- 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 40 mm

### Cure Schedule

Metal temperature	Time
<b>160 °C</b>	<b>10 minutes</b>
<b>180 °C</b>	<b>2 minutes</b>

### 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 m<sup>2</sup> kg<sup>-1</sup> at 70 µm average film.

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#### **Specific Gravity**

1.30 – 1.70 (colour-dependent)

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#### **Storage & Shelf Life**

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

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

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#### **Health & Safety**

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

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#### **SmartCure™ by Climate Powder – Made Local. Cures Smarter. Works Harder.**

For application support or custom colour development contact:

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