

TECHNICAL DATA SHEET

REAFREE® 6200-T

Powder Resins / Saturated Carboxylated Polyester / Epoxy

PRODUCT APPLICATION DETAILS

Saturated carboxylated polyester suitable for the formulation of decorative and protective thermosetting tribochargeable powders in combination with epoxy resins. For mat paints by dry-blend with REAFREE 6877-T. Gas oven stabilised. TMA free type.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	23-26 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	30-70 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (T _g)	approx 55 °C	DSC

¹The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

CURING CONDITIONS

15 minutes at 200°C (object temperature)

RECOMMENDED MIXING RATIO

REAFREE® 6200-T / Epoxy: 85/15 (For hybrid matte dry-blend systems)

REAFREE® 6200-T / Epoxy: 80/20 (For gloss systems)

MARKET

Coatings & Inks

- Industrial Coating
 - General Industry
 - Metal Interior - Powder

PERFORMANCE BENEFITS

- Good flow.
- High salt spray resistance.
- Good mechanical properties.
- Excellent over-bake resistance in direct gas fired ovens.
- Tribochargeable.

REAFREE® 6200-T

FORMULATION GUIDELINES

	STARTING FORMULATION	
	A	B
REAFREE® 6200-T	497	-
REAFREE® 6877-T	-	293
REAFREE® C4705-10	5	5
Epoxy resin ⁽¹⁾	88	293
Titanium Dioxide ⁽²⁾	340	340
Blanc Fixe ⁽³⁾	50	49
Flow modifier ⁽⁴⁾	8	8
Benzoin	2	2
CRAYVALLAC® PC	10	10

⁽¹⁾ Araldite GT-7004 (Huntsman) DER 663 UE (Dow Chemical) Epikote 3003 ⁽²⁾ Kronos 2160 ⁽³⁾ Blanc Fixe ABR (ICS) ⁽⁴⁾ Byk 360P (Byk Chemie)

DRY-blend paints A/B: 50/50

APPLICATION / EXTRUSION CONDITIONS

	CHARACTERISTICS
Extruder	BUSS PCS-30
Spraying gun	GEMA PG 1-B
Torque	40 %
Extrusion speed	200 rpm
Application voltage	60-80 kV
Test substrate (Degreased steel)	1 mm
Extrusion temperature	80 °C

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	approx. 25 %	
Cupping test	Over 8 mm	DIN 53156
Direct impact	Over 80 kg.cm	ASTM D-2794
Reverse impact	Over 80 kg.cm	ASTM D-2794
Conical mandrel	100 %	ASTM D-522

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

DELIVERY FORM

Granules. White opaque polyethylene bags of 25 Kg. One Ton pallet shrink – wrapped.

STORAGE AND HANDLING

The resin in its original unopened bags is stable for more than three years, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

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