

## 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 CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (T <sub>g</sub> )	approx 55 °C	DSC

<sup>1</sup>The 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 & APPLICATIONS

#### 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
<b>REAFREE® 6200-T</b>	497	-
<b>REAFREE® 6877-T</b>	-	293
<b>REAFREE® C4705-10</b>	5	5
Epoxy resin <sup>(1)</sup>	88	293
Titanium Dioxide <sup>(2)</sup>	340	340
Blanc Fixe <sup>(3)</sup>	50	49
Flow modifier <sup>(4)</sup>	8	8
Benzoin	2	2
CRAYVALLAC® PC	10	10

<sup>(1)</sup> Araldite GT-7004 (Huntsman) DER 663 UE (Dow Chemical) Epikote 3003 <sup>(2)</sup> Kronos 2160 <sup>(3)</sup> Blanc Fixe ABR (ICS) <sup>(4)</sup> 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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