

REAFREE® 6688

POWDER COATINGS / HYBRID

TECHNICAL DATA SHEET

Product

Saturated carboxylated polyester suitable for the formulation of decorative and protective thermosetting powders in combination with epoxy resins.

Application details

Medium reactive type.

Performance Benefits

- Excellent flow with very good gloss.
- High salt spray resistance.
- Good mechanical properties.
- Good recoatability.

Polymer Type

- Saturated Carboxylated Polyester Resin

Sales Specifications

Colour (50%), (ASTM D-1544)	2 max
Acid value, mg KOH/g (ASTM D-1639)	46 - 52
Viscosity 165°C, Pa.s (ICI – DIN 53229)	12 - 25

Other Characteristics¹

Appearance	Pale granules
Glass Transition T, °C (DSC - Tg)	approx 62

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

Curing Conditions

12 minutes at 180°C (oven temperature)

Recommended Mixing Ratio

REAFREE 6688 / Epoxy : 60/40

Starting Formulation

REAFREE 6688	363
Titanium Dioxide ⁽¹⁾	334
Epoxy resins ⁽²⁾	263
REAFREE F3300-A15	37
Benzoin	3

(1) Kronos 2160

(2) Araldite GT-7004 (Huntsman) DER 663 UE (Dow Chemical)
Epikote 3003 (Resolution)

Application / Extrusion Conditions

Extruder:	BUSS PCS-30
Torque:	40%
Speed:	200 rpm
Extrusion temperature:	80°C
Spraying Gun:	GEMA PG 1-B
Application voltage:	60-80 Kv
Test substrate:	Degreased steel 1 mm

Coating Properties

Film thickness	60-80 microns
Gloss 60°, (ASTM D-523-60E)	Over 94%
Cupping test, (DIN 53156)	Over 8 mm
Direct Impact, (ASTM D-2794)	Over 80 Kg.cm
Reverse Impact, (ASTM D-2794)	Over 80 Kg.cm
Conical mandrel, (ASTM D-522)	100%
Adhesion, (DIN 53151)	Gt0

Formulation Guidelines

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 & 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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