REAFREE® 6689

POWDER COATINGS / HYBRID

TECHNICAL DATA SHEET

Product Application details

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

Performance Benefits

- Very good flow.
- 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)	47 - 53
Viscosity 165ºC, Pa.s (ICI – DIN 53229)	10 - 20

Other Characteristics[1]

Appearance	Pale granules
Glass Transition T, ºC (DSC - Tg)	approx 53

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 180ºC (oven temperature)

Recommended Mixing Ratio

REAFREE 6689 / Epoxy : 60/40

Formulation Guidelines

Starting Formulation

REAFREE 6689	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:	80ºC
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 60º, (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

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 30ºC. Avoid direct sunlight.

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