

TECHNICAL DATA SHEET

REAFREE® 5701

Powder Resins / Saturated Carboxylated Polyester / TGIC and β -Hydroxyalkylamide

PRODUCT APPLICATION DETAILS

Saturated carboxylated polyester for combination with Triglycidylisocyanurate or β-Hydroxyalkylamide type hardeners. Suitable for the formulation of outdoor SUPERDURABLE and protective thermosetting powders for electrostatic application. TMA free type.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	32-38 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	9-20 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (Tg)	approx 63 °C	DSC

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

CURING CONDITIONS

TGIC: 10 minutes at 200°C (object temperature) PRIMID⁽¹⁾: 15 minutes at 160°C (object temperature) ⁽¹⁾ EMS-Chemie AG

RECOMMENDED MIXING RATIO

REAFREE® 5701 / TGIC: 93/7 REAFREE® 5701 / PRIMID XL-552⁽ⁱ⁾: 95/5 REAFREE® 5701 / PRIMID QM-1260 ⁽ⁱ⁾: 94,5/5,5 ⁽ⁱ⁾ EMS-Chemie AG

MARKET

- **Coatings & Inks** • Industrial Coating
 - Ace
 - General Industry
- Metal Exterior Powder

PERFORMANCE BENEFITS

- Outstanding flow.
- High gloss.
- Excellent outdoor durability. SUPERDURABLE FINISHES.
- Excellent salt spray resistance.



REAFREE® 5701

FORMULATION GUIDELINES

TOIO	
TGIC	PRIMID
620	633
320	320
47	-
-	29
3	3
10	10
	320 47 - 3

(1) Kronos® 2160

⁽²⁾ Araldite[®] PT-810 (Huntsman) / Tepic (Nissan Chemical)
⁽³⁾ Primid[®] XL-552 (EMS Chemie)

⁽⁴⁾ Byk[®] 360 P (Byk Chemie)

APPLICATION / EXTRUSION CONDITIONS

	CHARACTERISTICS	
Extruder	BUSS PCS-30	
Spraying gun	GEMA PG 1-B	
Torque	40 %	
Extrusion temperature ((TGIC / PRIMID))	80 / 105 °C	
Extrusion speed	200 rpm	
Application voltage	60-80 kV	
Test substrate (Degreased steel)	1 mm	

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	Over 90 %	
Cupping test	Over 8 mm	DIN 53156
Direct impact	Over 50 kg.cm	ASTM D-2794
Reverse impact	Over 20 kg.cm	ASTM D-2794
Adhesion	Gt0	DIN 53151

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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