

TECHNICAL DATA SHEET

REAFREE® 5706 MB

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



Bio-Attributed through Mass Balance



Superdurable

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.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	30-35 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate-165°C)	20-32 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 57 °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

TGIC: 10 minutes at 200°C (object temperature)

PRIMID[®]: 15 minutes at 180°C (object temperature) or 10 minutes at 160°C (object temperature)

[®] EMS-Chemie AG

RECOMMENDED MIXING RATIO

REAFREE® 5706 MB / TGIC: 93/7

REAFREE® 5706 MB / PRIMID XL-552[®]: 95/5

REAFREE® 5706 MB / PRIMID QM-1260 [®]: 94,5/5,5

MARKET

Coatings & Inks

- Industrial Coating
 - Ace
 - General Industry
 - Metal Exterior - Powder

PERFORMANCE BENEFITS

- Flexibility.
- High gloss.
- Blooming free.
- Excellent outdoor durability. SUPERDURABLE FINISHES.

REAFREE® 5706 MB

FORMULATION GUIDELINES

	STARTING FORMULATION	
	TGIC	PRIMID
REAFREE® 5706 MB	620	633
Titanium Dioxide ⁽¹⁾	320	320
Triglycidylisocyanurate ⁽²⁾	47	
β-Hydroxyalkylamide ⁽³⁾		34
Flow modifier ⁽⁴⁾	10	10
Benzoin	3	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 75 kg.cm	ASTM D-2794
Reverse impact	Over 45 kg.cm	ASTM D-2794
Adhesion	Gt0	DIN 53151

PRODUCT SAFETY

Please refer to the corresponding Safety Data Sheet.

Disclaimer - Please consult Arkema's disclaimer regarding the use of Arkema's products on <https://www.arkema.com/global/en/products/product-safety/disclaimer/> which is incorporated herein by reference and made a part hereof.

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REAFREE® 5706 MB

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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