

TECHNICAL DATA SHEET

REAFREE® 8580

Powder Resins / Saturated Carboxylated Polyester / β-Hydroxyalkylamide

PRODUCT APPLICATION DETAILS

Saturated carboxylated polyester for combination with β -Hydroxyalkylamide type hardeners. Suitable for the formulation of outdoor durable and protective thermosetting powders for electrostatic application. For high gloss systems with improved flow and degassing properties. Gas oven stabilised. TMA free type.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	30-36 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	15-25 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS	
Appearance	Pale granules		
Glass transition temperature (Tg)	approx 61 °C	DSC	
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 160°C (object temperature)

RECOMMENDED MIXING RATIO

REAFREE® 8580 / PRIMID XL-552⁽¹⁾: 95/5 REAFREE® 8580 / PRIMID QM-1260⁽¹⁾: 94,5/5,5 ⁽¹⁾ EMS-Chemie AG

MARKET Coatings & Inks

- Industrial Coating
- General Industry
- Metal Exterior Powder

PERFORMANCE BENEFITS

- Good flow and degassing properties.
- High gloss.
- Good mechanical properties.
- Excellent corrosion protection.Good yellowing resistance
- curing with direct-fired gas ovens.



REAFREE® 8580

FORMULATION GUIDELINES

	STARTING FORMULATION	
REAFREE [®] 8580	564	
Titanium Dioxide ⁽¹⁾	310	
ß-Hydroxyalkylamide ⁽²⁾	29	
REAFREE® F3300-R10	75	
Benzoin	2	
CRAYVALLAC [®] PC	10	
CRAYVALLAC [®] WN-1265	10	

⁽¹⁾ Kronos[®] 2160

(2) Primid® XL-552 (EMS Chemie)

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	105 °C

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	Over 90 %	
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
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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