REAFREE®

TECHNICAL DATA SHEET

REAFREE® 8582-T

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 tribochargeable
thermosetting powders for electrostatic application. For
high gloss systems with improved flow, degassing properties and exterior
durability.
Gas oven stabilised.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Acid value	29-34 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	20-40 Pa.s	DIN 53229
Color (50%)	2 max Gardner	ASTM D-1544

OTHER CHARACTERISTICS[1]

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature	apprx 63 °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 180ºC (object temperature)

RECOMMENDED MIXING RATIO

REAFREE® 8582-T / PRIMID XL-552(1) : 95/5
REAFREE® 8582-T / PRIMID QM-1260(1): 94,5/5,5
(1)PRIMID is a trade mark of EMS-Chemie AG

MARKET & APPLICATIONS

Coatings & Inks

- Industrial Coating
  - Metal Exterior - Powder

PERFORMANCE BENEFITS

- Excellent flow and degassing properties.
- High gloss.
- Good mechanical properties.
- Improved outdoor durability versus standard 95/5 resins.
- Enhanced resistance against blanching.
- Excellent anti-sagging properties.
- Good yellowing resistance curing with direct-fired gas ovens.
- Tribochargeable.
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REAFREE® 8582-T

FORMULATION GUIDELINES

	STARTING FORMULATION
REAFREE® 8582-T	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 aluminium)	0.8 mm
Extrusion temperature	105 °C

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60º)	Over 90 %	ASTM D-523-60E
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 30ºC. Avoid direct sunlight.

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