

TECHNICAL DATA SHEET

REAFREE® 8564-T

Powder Resins / Saturated Carboxylated Polyester / β -Hydroxyalkylamide



Low / Ultra Low Temperature Cure

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. Especially designed for low temperature, good flow applications.

SALES SPECIFICATIONS

	CHARACTERISTICS	METHODS
Color (50%)	3 max Gardner	ASTM D-1544
Acid value	31-37 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	15-35 Pa.s	DIN 53229

OTHER CHARACTERISTICS¹

	CHARACTERISTICS	METHODS
Glass transition temperature (T _g)	approx. 58 °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

10 minutes at 160°C (object temperature)
20 minutes at 150°C (object temperature)

RECOMMENDED MIXING RATIO

REAFREE® 8564-T / PRIMID XL-552⁽¹⁾ : 95/5
REAFREE® 8564-T / PRIMID QM-1260⁽¹⁾ : 94,5/5,5
⁽¹⁾ EMS-Chemie AG

MARKET & APPLICATIONS

Coatings & Inks

- Industrial Coating
 - General Industry
 - Metal Exterior - Powder
 - Metal Interior - Powder
 - Wood Furniture
 - Powder Coating - Others

PERFORMANCE BENEFITS

- Fast cure, low temperature cure.
- Excellent blooming resistance.
- Good flow and degassing properties.
- High gloss.
- Good mechanical properties.
- Tribochargeable.

REAFREE® 8564-T

FORMULATION GUIDELINES

STARTING FORMULATION	
REAFREE® 8564-T	564
Titanium Dioxide ⁽¹⁾	310
β-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
Extrusion temperature	115 °C
Application voltage	60-80 kV
Test substrate (Degreased aluminium)	0.8 mm

COATING PROPERTIES

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	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	
Conical mandrel	100 %	
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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