## **REAFREE® 5703**

Product Application details	type hardeners. Suitable for the formulation of outdoor SUPER	on with Triglycidylisocyanurate or $\beta$ -Hydroxyalkylamide DURABLE and protective thermosetting powders
Performance Benefits	<ul> <li>Flexibility.</li> <li>High gloss.</li> <li>Blooming free</li> <li>Excellent outdoor durability. SUPERDUR.</li> </ul>	ABLE FINISHES.
Polymer Type	Saturated Carboxylated Polyester Resin	
Sales Specifications	Colour (50%), (ASTM D-1544)	2 max
	Acid value, mg KOH/g (ASTM D-1639)	31 - 37
	Viscosity 165°C, Pa.s (ICI – DIN 53229)	12 - 32
Other Characteristics <sup>1</sup>	Appearance	Pale granules
	Glass Transition T, °C (DSC - Tg)	approx 50
	1 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 <sup>(1)</sup> : 15 minutes at 180°C (object temperature) <sup>(1)</sup> PRIMID is a trade mark of EMS-Chemie AG	
Recommended Mixing Ratio	REAFREE 5703 / TGIC :         93/7           REAFREE 5703 / PRIMID XL-552 <sup>(1)</sup> :         95/5           REAFREE 5703 / PRIMID QM-1260 <sup>(1)</sup> :         94,5/5,5	
	Starting Formulation	Application / Extrusion Conditions

	TGIC	PRIMID
REAFREE 5703	620	633
Titanium Dioxide(1)	320	320
Triglycidylisocyanurate <sup>(2)</sup>	47	
β-Hydroxyalkylamide <sup>(3)</sup>		34
Benzoin	3	3
Flow modifier <sup>(4)</sup>	10	10

## Formulation Guidelines

- Kronos 2160
   Araldite PT-810 (Huntsman) / Tepic (Nissan Chemical)
   Primid XL-552 (EMS Chemie)
   Byk 360 P (Byk Chemie)

Application / Extrusion Conditions				
Extruder:	BUSS PCS-30			
Torque:	40%			
Speed:	200 rpm			
Extrusion temperature:	80°C / 105°C			
	(TGIC / PRIMID)			
Spraying Gun:	GEMA PG 1-B			
Application voltage:	60-80 Kv			
Test substrate:	Degreased			
	steel 1 mm			
<b>Coating Properties</b>				
Film thickness	60-80 microns			
Gloss 60°, (ASTM D-523-60E)	Over 90%			
Direct Impact, (ASTM D-2794)	Over 50 Kg.cm			
Reverse Impact, (ASTM D-2794)	Over 20 Kg.cm			
Adhesion, (DIN 53151)	Gt0			



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 & 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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## Headquarter

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