# CRYLCOAT® 4540-0



# **General Description**

CRYLCOAT<sup>®</sup> 4540-0 is a superdurable carboxyl functional polyester resin for the formulation of superdurable powder coatings with 7% of Araldite<sup>®</sup> PT-910 or Araldite<sup>®</sup> PT-912. Coatings based on CRYLCOAT<sup>®</sup> 4540-0 exhibit excellent outdoor durability.

# Saturated Superdurable Polyester Resin

# **Product Specification**

	Limits
Appearance	Pale granules
Brookfield Viscosity @ 200 °C, mPa.s	5000-13000
Color, b-value	Max. 10
Acid value (mg KOH/g)	23-27

#### **Other Properties**

	Typical value
Glass transition (°C)	Approx. 67

# **Starting Formulation**

Component	Weight (%)
CRYLCOAT <sup>®</sup> 4540-0	64.8
Araldite <sup>®</sup> PT-910	4.9
Titanium dioxide	29.0
MODAFLOW <sup>®</sup> Powder 6000	1.0
Benzoin	0.3

# **Extrusion & Application Conditions**

Extrusion		
Extruder	Twin screw	
Speed	250 rpm	
Torque	75 ± 5 %	
Temperature	95 to 105 °C	
Application		
Application	60 micrometer film on 0.5 mm chromated Al panel	
Spray Gun	Output voltage: 60 kV	
Curing	10 min @ 200° C metal temperature	

#### Shelf Life

Under normal storage conditions ( $\leq$ 30°C), the shelf life of the resin will be 24 months from date of manufacturing. For product older than 24 months, it is recommended to check the acid value and the viscosity every year.

#### **Safety & Environmental Protection**

For more information, please refer to the Material Safety Data Sheet.

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#### 2.1 / 05.07.2020 (replaces all previous versions)

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