

Product Data Sheet

Uralac® P 2240

Saturated, carboxylated polyester resin

Applications

HAA (β-Hydroxyalkylamide) cure resin, 93/7 type, or TGIC cure resin, 90/10 type, for architectural and industrial purposes.

Principal properties

- Medium cure
- Architectural
- Flexibility
- Chemical resistance
- Non blooming at cure
- Enhanced tribo chargeability characteristics when processed under controlled conditions.

Product specifications

Property	Range	Unit	TM
Acid value	51,0 - 56,0	mg KOH/g	2400-06
Viscosity, Brookfield	75,0 - 115,0	Pa·s	2727-04
Colour, ISO 7724	Max. 8	b*	2019-02

Other product data

Property	Range	Unit	TM
Glass transition temp. (Tg)	≈ 69	°C	2076-04 ASTM D 5965
Specific gravity	1,2	g/cm ³	

Material safety & Test methods

Documentation is available on request.

Storage guidelines & Shelf life

The resin should be stored indoors in the original, unopened and undamaged containers in a dry place at storage temperatures below 30°C. The shelf-life of the resin is 1 (one) year ex works, based on experience the resin remains stable for at least 3 (three) additional years. Exposure to direct sunlight should be avoided.

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Technical grade

Delivery form: Flakes

Starting formulation

Glossy, white powder coating

Component	Weight 1	Weight 2
Uralac® P 2240	611,5	590,0
HAA (β-Hydroxyalkylamide) ¹⁾	46,0	
TGIC (Triglycidylisocyanurate) ²⁾		65,0
Titanium dioxide ³⁾	330,0	330,0
Flow control agent ⁴⁾	10,0	10,0
Benzoin	2,5	5,0
	1000	1000

- 1) Primid® XL-552, EMS-Griltech
- 2) Araldite® PT 810, Huntsman or TEPIC, Nissan Chem. industries
- 3) Kronos® 2160 or Kronos® 2310, Kronos Titan GmbH
- 4) Resiflow PV 5, Worlée-Chemie GmbH or Resiflow PV 88, Worlée-Chemie GmbH or Byk® 368 P, Byk Chemie GmbH

Paint manufacturing parameters

Prism TSE 16 PC twin screw extruder; Setting temperature: 120°C; Speed (rpm): 200

Application procedure

Tribo or corona spray gun, voltage 60 kV; 0,6 mm chromate pretreated aluminum Q-panels type ALQ-46; Coating thickness ≈ 50 microns; Stoving in an air-circulated oven

Cure cycles (total oven time):

Formulation I: 15 minutes 160°C.

Formulation II: 10 minutes 180°C.

Coating Property	Value	TM
Reverse impact, ALQ-46	7 Nm	ASTM D 2794
Reverse impact, S-46	18 Nm	ASTM D 2794
Storage stability (28 days 40°C)	10	DIN 55 990-7