

Product Datasheet



Uralac® P 7684

Carboxylated polyester for powder coatings

Technical grade
Delivery form: Flakes

Application

HAA (β-Hydroxyalkylamide) cure resin, 96/4 type, for architectural purposes. Developed for excellent corrosion resistance.

Principal properties

- Slow cure
- Superdurable
- Limited flexibility
- Good corrosion resistance
- Non-blooming
- Storage stability

Product specifications

Properties	Range	Unit	TM
Acid value	26,0 - 30,0	mg KOH/g	2400-07
Viscosity, Brookfield	20,0 - 40,0	Pa·s	2727-05
Colour	≤ 8,0	b*	2019-03

Product data

Properties	Value	Unit	TM
T _g	≈ 60	°C	2076-05
Specific gravity	1,2	g/cm ³	ASTM D5965

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.

Starting formulation

Glossy, white powder coating

Component	Weight
Uralac® P 7684	631,3
HAA (β-Hydroxyalkylamide) 1)	26,5
Titanium dioxide 2)	330,0
Flow control agent 3)	10,0
Benzoin	2,2
	1000,0

1) Primid® XL-552, EMS-CHEMIE AG

2) Ti-Pure™ R-960 or TS-6200, Chemours™

3)) BYK®-360 P or BYK®-368 P, BYK-Chemie GmbH

Extrusion process parameters

TSA FSCM 15-25 twin screw extruder; Setting temperatures: 60°C/120°C/115°C; Speed: 400 rpm.

Application process conditions

Tribo or corona spray gun, voltage 60 kV
Q-PANEL AQT-46, Alum. Tri. Chrome Pretreat 0,81 mm
Coating thickness ≈50 µm
Stoving in an air-circulated oven

Cure cycle (total oven time)

12 minutes 180°C

Coating properties	Value	TM
Cupping test, Erichsen slow penetration	>3 mm	ISO 5120
Storage stability (28 days 40°C)	8	DIN 55 990-7

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