

Technical Data Sheet

AHA6554

Enhanced HAA crosslinker for exterior durable powder coatings

Description

AHA6554 is a novel β -hydroxyalkylamide crosslinker, which is especially designed to have 3 hydroxyl group functionalities, for formulating exterior durable carboxylic polyester powder coatings. Due to its chemical structure, AHA6554 could provide long-gel time, better color stability and excellent over baking properties, therefore, a pinhole-free, high glossy powder coating with exceptional flow is easily formulated.

Typical properties

Appearance	Visual	White powder
Melting range	°C	100-115
Hydroxy number	mgKOH/g	550-650
Volatiles	%	≤1

Herein described to be typical properties and do not constitute specification limits.

Application Comparison Test

Components	Part by weight				Remark
Uralac P865	603	603	/	/	94.5/5.5
CRYLCOAT 2630-2	/	/	603	603	94.5/5.5
AHA6554	35	/	35	/	AHA
Primid SF4510	/	32	/	35	EMS
R-960	200	200	200	200	
AHA1088P	10	10	10	10	Flow Modifier
Barytes	150	150	150	150	
AHA4100	2	2	2	2	Benzoin
Total	1000	1000	1000	1000	
Cure Cycle	200°C/10min				
Typical Technical Date:					
PCI	6	6	6	6	
Gloss	95.6%	95.3%	96.0%	96.7%	60°
Impact (D&R)	+/+	+/+	+/+	+/+	1KG*50cm
Gel time	152s	147s	139s	142s	200°C
Δb	1.26	1.24	0.82	0.78	230°C / 30 min

Notice:

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Process & Use levels

AHA6554 is added to the binder/pigment blend before extrusion.

Recommended to design formulation by weight parts of 94.5/5.5 (resin to AHA6554) for pure polyester resin with AV ca 34mgKOH/g.

Attention: T_g of the powder will be affected when AHA6554 used as crosslinker

Shelf life

Based on our experience the shelf life of this product is at least within one year from date of manufacture. For older than this period, it is recommended to check the hydroxy number.

Storage & Notice

Store in temperature between 2 and 35°C or cool dry place to avoid wetting-absorption.

Handling & Precaution

Avoid contact with eyes and skin. Avoid breathing dust. Wash after handling.

For further information, please refer to the SDS

Regulatory status

AHA6554 complies with TSCA (USA), DSL/NDSL (Canada) and IECSC (China).

Package

Packaging in fiberboard boxes with polyolefin liner. Net weight 25Kg per box.

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