

Technical Data Sheet

AHA6552

Standard HAA crosslinker for exterior durable powder coatings

Description

AHA6552 is a tetra-functional group containing β -hydroxyalkylamide crosslinker. As a substitute of TGIC, it is suitable for curing with carboxyl-terminated polyester or acrylic resin to provide TGIC-free based exterior durable powder coatings.

Typical properties

Appearance	Visual	White powder or granular solid
Melting range	°C	120-130
Hydroxy number	mgKOH/g	620-700
Volatiles	%	≤1

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

Application Comparison Test

Components	Part by weight				Remark
Uralac P865	606	606	/	/	95/5
CRYLCOAT 2630-2	/	/	606	606	95/5
AHA6552	32	/	32	/	AHA
Primid XL552	/	32	/	32	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 Data:

PCI	6	6	6	6	
Gloss	96.0%	96.1%	96.5%	95.7%	60°
Impact (D&R)	+/+	+/+	+/+	+/+	1KG*50cm
Gel time	99s	105s	98s	101s	200°C
Δb	1.34	1.32	1.14	1.16	230°C/30 min

Notice:

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Process & Use levels

AHA6552 is added to the binder/pigment blend before extrusion.

Recommended to design formulation by weight parts of 95/5 (resin to AHA6552) for pure polyester resin with AV ca 34mgKOH/g; 96.5/3.5 by weight for polyester resin with AV ca. 22 mgKOH/g.

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

AHA6552 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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