

Technical Data Sheet

AHA2148

Matting Hardener for TGIC powder coatings

Description

AHA2148 is a wax-free matting hardener suitable for exterior durable TGIC powder coatings capable of providing gloss < 10% @ 60°. Due to carboxyl group-containing it is requested excess TGIC reactive with it together to achieve controllable gloss and excellent gloss stability in varying temperature baking conditions. Additional benefits are excellent performance such as impacts and acceptable surface flow etc.

Typical properties

Appearance	[visual]	free-flowing, pale yellow powder
Melting ranges (°C)		110-135
Acid equivalent weight	[calc.]	750
Bulk density (g/dm ³)		450-550
Volatiles (%)		≤1.5

Application

AHA2148 is recommended as matting hardener used in polyester/TGIC powder coatings

Advantages:

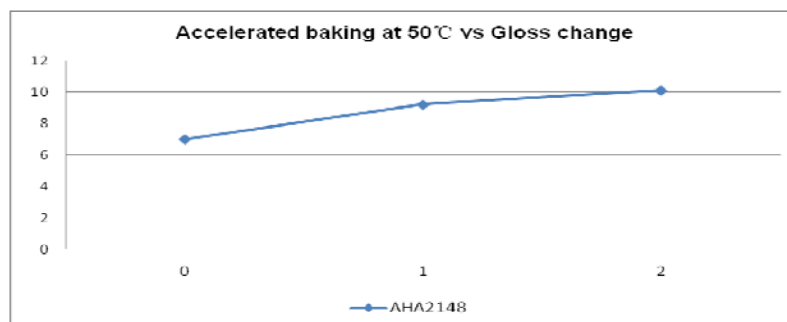
- One shot matte
- Gloss stable in varying temperature conditions
- Wax-free avoiding wax negative effect
- Low polyester selectivity
- The lowest gloss ca. 10%
- Acceptable flow & surface fineness
- Excellent impacts
- Good exterior durable due to AHA2148-self with anti-UV rays

One of the important features is the preeminent gloss stability over any existing matting agents so that it will answer for the storage stability of coating powder thereof. Under accelerated baking condition at 50°C for two weeks, it is found that gloss had no almost changes:

Notice:

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Use level

3- 6% based on total formulation by weight, depending on the gloss required.

AHA2148 contains reactive functional groups so that it is requested to take part in reaction with excess TGIC in formulation. In general, the mix ratios 6.5-7.5/1 by weight of AHA2148 to excess TGIC were recommended.

Curing schedules

15min@180°C or 10min@ 200°C (metal temperature)

Incorporation & processing Instructions

AHA2148 should be mixed with resin, hardeners, pigments and other raw materials in a high-speed mixer and then extruded.

Shelf life

Based on our experience the shelf life of this product is at least within 3 year from date of manufacture. For older than this period, it is recommended to re-check the performance per year.

Storage

Store in temperature between 2 and 35°C or cool dry place. Keep package closed after using.

Handling & Precaution

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

For further information, please refer to the MSDS

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Regulatory status

AHA2148 complies with TSCA (USA), DSL/NDSL (Canada) and IECSC(China).

Package

Packaged in PE lined craft paper bag, Net weight 25 Kg per bag.

Version III 11-2023

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