

## Technical Data Sheet

### AHA2116

#### Matting hardener for hybrid powder coatings

#### Description

**AHA2116** is acid acrylics based matting hardener designed, in conjunction with proper polyesters, for hybrid powder coating capable of providing the lowest gloss of ca. 5%. Due to acid functional containing it is necessary to further consume a few of epoxy resins.

#### Typical properties

Appearance	[visual]	Slightly yellow powder
Melting Point (°C)	[DSC]	110-135
Volatiles (%)		≤1.5

#### Application

**AHA2116** contains reactive carboxylic groups therefore it is necessary to further consume a few of epoxy resins in mix ratio of about **1:1.4** (AHA2116/epoxy) so that it and polyester together can react with epoxy to form the competitive reactions.

#### Advantages:

- The lowest gloss approaching 5%
- Excellent flow & mechanical properties
- High color stability
- High film hardness & anti-scratch
- Outstanding anti-yellowing

#### Use levels

1-6% by weight, calculated on total formulation depending on the gloss required.

#### Curing schedule

200°C/10min (metal temperature)

180°C/15min

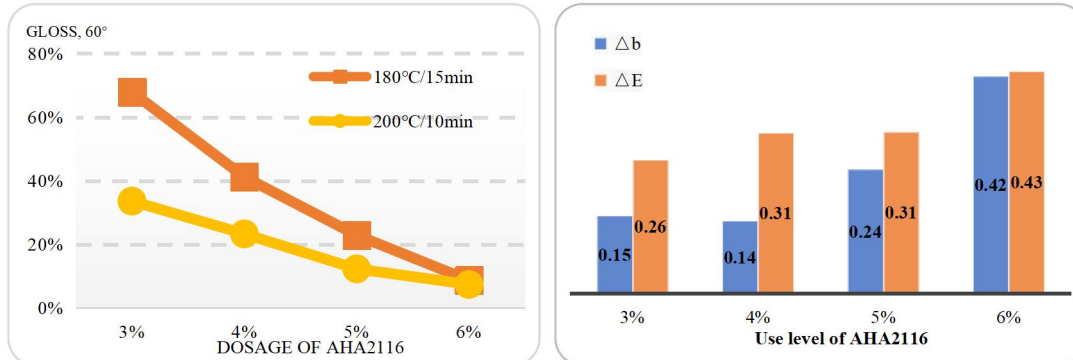
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## Gloss and overbake resistance VS Dosage

The relationship between gloss and dosage of AHA2116 based on polyester SJ3#B(50/50 type) as below:



Cure cycle: 180°C/15min, Overbake: 200°C/30min

## Process

Pre-mixing with other ingredients together, then homogenized in a heated extruder.

## 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 re-check the performance.

## Storage & Notice

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

## Regulatory status

AHA2199 complies with TSCA (USA), DSL/NDSL (Canada) and IECSC(China).

## Package

Packaged in craft paper bag with polyethylene liner. Net weight 25 Kg per bag.

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