

## Technical Data Sheet

### AHA6310

#### Phenolic curing agent for functional epoxy powder coatings

#### Description

**AHA6310** is a phenolic hydroxyl group terminated resinous curing agent for functional and decorative epoxy powder coatings. It, in combination with solid bisphenol-A epoxy and/or epoxy novolacs, provides the excellent chemical resistance and mechanical properties, therefore recommended to use in application of bulk package, fittings, pipeline, rebar, tap and valve etc. It contains no accelerator.

#### Typical physical data

Appearance	pale yellow color granules		
Softening point	°C	85-100	Ring & Ball
Hydroxyl content	g/eq	230-330	
Volatiles	%	≤1.5	

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

#### Application

AHA6310 is recommended to use mainly in the functional epoxy powder coatings for the protection of bulk package, fittings, pipeline, rebar, tap etc.

Advantages:

- Quite high softening point & less powder blacking /sinter tendency
- Excellent flexibility & mechanical properties
- Excellent chemical & cathode delaminating resistance
- Wide range of formulating altitude due to unnecessary of exact stoichiometric ratio of curing agent against resin binder
- Wide range of curing schedule
- Excellent edge coverage
- No frozen supply chain, Excellent storage stability

#### Notice:

The key technical data or specifications for the above product described in this paper may be changed from time to time due to improvement constantly. **AHA** reserves the right to change the specifications of its products without prior notice.

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## Use levels & Processing

Use level is mainly determined empirically but unnecessary to very exact. Approx. 22-28 parts against 100 parts of 3 type epoxy resin [EEW560-750] by weight recommended. In order to improve cathode delaminating resistance less than 5-20% of use level on stoichiometric ratio of curing agent against epoxy binder will be possible to acceptable when 2-methyl imidazole added as accelerator.

AHA **6310** is added to the binder/pigment blend before extrusion.

Imidazole accelerator addition in powder formulation required for initiating the reaction phenolic hydroxyl with oxiranyl group

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## Curing cycles

Fast cure: 2min/200°C; Mild cure: 5min/160°C;

Low cure: 30min/120°C, depending on whether by imidazole or not

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## Shelf life

Based on our experience this product should be consumed out within 18 months from date of manufacture. For older than this period, it is recommended to re-check the performance.

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## Storage & Notice

Store in temperature between 2 and 35°C or cool dry place to avoid wetting-absorption. Keep package closed after using.

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## Handling & Precaution

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

For further information, please refer to the SDS

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## Regulatory status

AHA **6310** complies with TSCA (USA), DSL/NDSL (Canada) and IECSC (China).

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## Package

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

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**Important attention**

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Due to high reactive the flow and surface smoothness of LAT powder is becoming poor and poor gradually with time-lapsing during storage, therefore we strongly recommend that ready powder coatings have to be used up as soon as possible

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