

AHA 55 [CAS No.: 54553-91-2]**Matting Hardener for epoxy based powder coatings****General description**

Matting hardener AHA55 is the disalt of 2-phenyl imidazoline with pyromellitic acid which is offset of Vestagon B55 from Evonic (former Degussa). It is used as crosslinker for pure epoxy, epoxy/polyester hybrid based powder coatings to provide coatings with matt finishes, exceptional flow and good mechanical properties.

1. Specification.

Appearance	Very fine, white powder
Melting point (°C)	230-245
Particle size	40µm, 100% pass
Volatiles (%)	≤1.0

2. Application

- Matting hardener for pure epoxy based powder coatings. The matt epoxy powder coatings with gloss ranges from 20 to 30% (60°) can be obtained when AHA55 used as single crosslinker.
- Matting hardener for epoxy/polyester powder coatings. In such coating systems the wide range of gloss is controlled by replacing parts of AHA55 with polyester resins (AV=34±2mgKOH/g).
- Excellent flow and Good mechanical properties.

3. Use levels & Processing

Approx. 7-7.5parts, calculated on 100 parts by weight of epoxy resin (E.E.W700-850);
Approx. 8-8.5 parts, calculated on 100 parts by weight of epoxy resin (E.E.W850-1000);
AHA 55 is added to the binder/pigment blend before extrusion.

4. Curing cycles

180°C @20min; 190°C @15min; 200°C @10min

5. Storage

Store in temperature between 2 and 30°C or cool dry place to avoid wetting-absorption and caking. Keep package closed after using. Keep away from fire.

Based on our experience the shelf life of this product is at least 3 year.

6. Package

Packaging with PE lined craft paper bags. Net weight 20 Kg per bag.

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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