

Technical Data Sheet

AHA6640

Crosslinker for polyurethane powder coatings

Description

AHA6640 is a Caprolactam blocked cycloaliphatic polyisocyanate, as a hardener for polyurethane powder coatings. The unblocking temperature >160°C.

Typical properties

Appearance		White granular solid
Total NCO content	%	12-14
Free NCO content	%	≤1
NCO equivalent	g/Eq	310
Tg	°C	55-65
Melting range	°C	75-100

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

Application

AHA6640 is a hardener for OH-terminated polyester to achieve weather-resistant decorative powder coatings with excellent physical properties. (NCO: OH=1:1) is recommended for optimum film properties. Slight undercrosslinking (NCO: OH=0.8:1) is possible depending on the co-reactants used and the film properties required.

Cure cycle: 20mins at 180°C or 10mins at 200°C

Process & Formulations

AHA6640 is added to the binder/pigment blend before extrusion.

Recommendations to design formulation as below:

NCO:OH	1:1		0.8:1		
AHA6640	15	22	12	19	Part by weight
OH value=30	85	/	88	/	Part by weight
OH value=50	/	78	/	81	Part by weight

Shelf life

Based on our experience the shelf life of this product is at least within one year from date of manufacture. All opened bags should be carefully resealed immediately after use.

Notice:

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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

AHA6640 complies with TSCA (USA), DSL/NDSL (Canada) and IECSC (China).

Package

Packaging with PE lined craft paper bag. Net weight 25Kg per bag.

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