

ESCAT 50 CATALYST FOR POWDER COATINGS

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THE EDGE OF INNOVATION

GENERAL DESCRIPTION

ESCAT 50 is a 50% active imidazole catalyst specifically developed to facilitate dispersion and avoid hot spots of the catalyst during powder manufacture. The additive is used to accelerate the cure of powder coatings based on the carboxyl-epoxy reaction, or for pure epoxy systems as well. Typical systems include hybrids such as polyester-epoxy, carboxyl acrylic-epoxy and polyesters cured by GMA-functional acrylics. Polyester-TGIC and polyester-PT-910 reactions can also be accelerated. ESCAT 50 can reduce the cure temperature of a particular system or shorten the required bake time at a given cure temperature without sacrificing DOI or flow and leveling properties. The product may also reduce star cracking on impact.

Due to the special composition of ESCAT 50, it is believed that this product provides some charging characteristics for tribo powder coatings. The reaction response of ESCAT 50 is similar to propyl imidazole based products, but slower in rate and less yellowing than 2-methyl imidazole based catalysts. Recommended usage level of ESCAT 50 is 0.3 – 0.6% on total formula weight. Each application should be tested to determine the optimum catalyst level to achieve the desired cure time and coating properties. More detailed applications information is described in the ESCAT 50 Technical Brief #1. The active ingredient of ESCAT 50 is also available in pure form designated as ESCAT 110.

TYPICAL PROPERTIES*

Appearance	Tan to Brown Granules
% Active	48 - 52%
Specific Gravity (25/25)	0.85 – 1.05

* Not to be used for specification purposes

REGULATORY LISTINGS

The components of this material are either listed or exempt from listing due to polymer exemption criteria for the following chemical inventory listings: EINECS (Europe), ENCS (Japan), IECSC (China), PICCS (Philippines), TSCA (USA)

PACKAGING (NET WEIGHT)

55 lb. / 25 kg in fiberboard box with polyolefin liner

PRODUCT AVAILABILITY

This product is commercially available and may require lead time.

STORAGE AND HANDLING

Store in a dry, cool area and avoid excessive heat. Shelf life of unopened containers is one year from date of shipment. See SDS for additional information.

CONTACT INFORMATION

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