

Technical Leaflet

ESCAT 50

Catalyst for Epoxy, Hybrid and TGIC Powder Coatings

Art.-No. 134004-06205

Revision: 01.11.07

ESCAT 50 is a substituted imidazole catalyst masterbatched at 50% active level in castor wax. Masterbatching the catalyst in castor wax improves the compatibility during extrusion, which helps to assure its uniform distribution in a powder coating.

Technical Data:

Appearance	off-white granules
Activity	48 - 52%
Density	0.85 - 1.05

Application:

ESCAT 50 is used in powder coatings to accelerate the cure of systems based on the reaction of an epoxy functional resin with a carboxyl functional curing agent. Typical systems are epoxy/polyester hybrids, epoxy/acrylic hybrids, TGIC/polyester systems and epoxy-functional acrylic/carboxyl-functional curing agent systems. It can also be used to accelerate the cure of epoxy systems that are cured by dicyanamide. In typical formulations, ESCAT 50 is similar in response to 2-propyl imidazole based catalysts. Recommended usage level is 0.2 to 1.5% of ESCAT 50 based on the binder content. Each application should be tested to determine the optimum level of catalyst to achieve the desired cure time and coating properties.