



Hardener TGIC

Description

TGIC is a Curing Agent for Powder Coatings systems that combined with adequate Polyester resins provides coating systems with good outdoors durability and mechanical properties, excellent flow and high gloss.

Commodity Name: HARDENER TP810

Molecular Formula: $C_{12}H_{15}N_3O_6$

Molecular Weight: 297

Specifications

Appearance:	White granule or powder
Melting range:	90-110°C
Epoxy equivalent:	< 110
Viscosity(at 120°C):	< 100CP
Epichlorohydrin	< 50ppm
Volatile Matter	< 1.0%
Chlorine	< 1.5%

Orientation Formulation (PES/TGIC 93:7) (parts by weight)

Polyester Resin	55,8 (93:7)
TGIC	4,2
Kronos 2310 (TiO ₂)	40,0
Leveling agent (100% active)	0,5
Benzoin	0,3

Application

Many used as curing agent for polyester powder coating, also used to manufacture electrical insulation materials, laminated sheeting, printed circuits, tools, adhesives, stabilizer for plastic materials, etc. It imparts good weather stability due to its very stable chemical nature. It provides good reactivity through its free functional epoxide groups when it is combined with resins containing carboxyl groups as saturated polyesters. The powder will cure with no emission of VOC.

Curing requirement 200°C 15minutes

Packaging In kraft paper bag of 25kgs net each with plastic lining.