TECHNICAL DATA SHEET

TP105 CROSSLINKER

(Similar to Primid XL-552)

Description

TP105 is an alkylamine cross-linker with –OH functionality capable to crosslink carboxyl functional polyester for outdoor durable powder coatings applications.

Technical Parameters

Chemical Name	N,N,N',N'-Tetrakis (2-hydroxyethyl) Adipamide
Appearance	White, crystalline solid
Color Gardner ISO4630	< 1
Melting Point （℃）	120 - 127
Water Content (%)	< 1
Hydroxyl Equivalent Weight	82±2
Mixing Ratio	95:5

Reference formulation (PES/TP105 95:5)(parts by weight)

Polyester Resin	56.0(94:6)(95:5)
Cross-linker TP105	3.0
Kronos 2310 (Titanium Dioxide)	40.0
Thixatrol ST	0.8
Benzoin	0.2

Gel time: 200℃ – 90℃.
Curing requirement：200℃ 10 minutes.

Basic properties of coating film（film thickness 60μm）

Impact（direct. reverse）	50Kg.cm
Pencil Hardness	H
Bending（2mm）	Pass
Gloss（60）（%）	>90
QUVB313 240 (%)	≥75

Application

Mainly used as curing Agent for polyester powder coating. It imparts good weather stability due to its very stable chemical nature. It provides good reactivity through its free functional hydroxyl groups when it is combined with resins containing carboxyl groups as saturated polyesters. The powder will cure with no emit of VOC.

Package & Storage & Handling

1. Available in polyethylene-lined, multi-ply paper bags, N.W. 25KG/Bag.
2. Store in a cool and dry place to avoid contacting other chemical products. Seal after use. Please wear dustproof mask and glove when operating.
3. Validity will be 1 year under normal temperature.