Polyvion®

Product Name : Polyvion® ISO TT350

CAS number : Mixture

Chemical Type : Aromatic Polyisocyanate (TDI-based, solvent-borne)

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO TT350 is a solvent-borne aromatic polyisocyanate crosslinker based on toluene diisocyanate (TDI) chemistry, supplied as a solution in butyl acetate with a nominal non-volatile content of approximately 50%.

It is designed as the hardener component for fast-drying two-component polyurethane (2K PU) coatings, providing rapid cure development and good early hardness when reacted with suitable hydroxyl-functional resins.

2. Typical Applications

Polyvion® ISO TT350 is typically used as a crosslinker in:

- Fast-drying industrial polyurethane coatings
- Wood and furniture coatings
- Protective and decorative coatings
- Printing and specialty coatings

Actual suitability and performance depend on resin selection, NCO/OH ratio, formulation design, and processing conditions applied by the user.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical state	–	Liquid	Visual
Appearance	–	Colorless to pale yellow	Visual
Non-volatile matter	%	~49–53	ISO 3251

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Property	Unit	Typical Value	Test Method
NCO content	%	~7.7–8.3	ISO 11909
Viscosity (25 °C)	mPa·s	~500–1,800	ISO 3219
Color (Gardner)	–	≤1.0	EN 1557
Monomeric TDI	%	<0.50	ISO 10283
Density (20 °C)	g/cm³	~1.09	ISO 2811
Flash point	°C	~26	ISO 2719
Equivalent weight	g/eq	~525	Calculated

Note: Typical values are indicative only and do not constitute a specification.

4. Recommended Use

Polyvion® ISO TT350 is intended for use with hydroxyl-functional polyester, acrylic, or alkyd resins in fast-drying 2K PU systems.

The NCO/OH ratio, curing profile, pot life, and application parameters should be optimized and validated by the user.

Only PU-grade solvents with low moisture content (≤0.05% water) and without reactive groups (e.g., hydroxyl or amino) should be used. Alcohols are not recommended due to reactivity with isocyanates.

5. Packaging & Logistics

Polyvion® ISO TT350 is supplied in sealed metal drums, typically 20 kg or 215 kg, subject to confirmation at the quotation stage.

The product is offered under standard Incoterms such as FOB, CFR, or CIF, as specified in the quotation.

Indicative lead times are provided at quotation and confirmed upon order acceptance.

6. Handling & Storage

Polyvion® ISO TT350 is moisture-sensitive and should be stored in its original, tightly closed containers in a cool, dry, and well-ventilated area, protected from heat, moisture, and foreign materials.

Storage at elevated temperatures may result in increased color and viscosity. Recommended storage temperature: 0–30 °C. Refer to the SDS for detailed handling instructions and PPE requirements.

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