Polyvion®

Product Name : Polyvion® HDI-T 75

CAS number : Mixture

Chemical Type : HDI Trimer Polyisocyanate (solvent-borne)

Business Unit : Polyurethane

1. Product Description

Polyvion® HDI-T 75 is a solvent-borne aliphatic polyisocyanate crosslinker based on hexamethylene diisocyanate (HDI) trimer chemistry with a nominal non-volatile content of approximately 75%.
It is designed for use as the curing component in two-component polyurethane (2K PU) systems, providing excellent weather resistance, chemical resistance, and mechanical durability when reacted with suitable hydroxyl-functional resins.

2. Typical Applications

Polyvion® HDI-T 75 is typically used as a crosslinker in:

- Automotive refinishing and OEM coatings
- Industrial polyurethane coatings
- Protective and anticorrosive coatings
- High-performance clear coats
- Adhesives and sealants

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

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical state	–	Liquid	Visual
Appearance	–	Clear to slightly yellow	Visual
Non-volatile matter	%	~74–76	ISO 3251

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Property	Unit	Typical Value	Test Method
NCO content	%	~16.2–16.8	ISO 11909
Monomer (HDI) content	%	<0.4	ISO 10283
Color (Hazen)	–	≤40	EN 1557
Viscosity (23 °C)	mPa·s	~175–325	ISO 3219
Density (20 °C)	g/cm³	~1.10–1.15	DIN 51757

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

4. Recommended Use

Polyvion® HDI-T 75 is intended for use with hydroxyl-functional acrylic, polyester, or polyether polyols in 2K polyurethane systems.

The NCO/OH ratio, curing temperature, pot life, and application parameters should be optimized and validated by the user. Strict moisture control is required during storage, formulation, and application, as isocyanates react with water.

5. Packaging & Logistics

Polyvion® HDI-T 75 is supplied in sealed steel drums or equivalent industrial packaging, 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® HDI-T 75 should be stored in its original, tightly closed containers in a cool, dry, and well-ventilated area, away from heat sources and direct sunlight.

The product is moisture-sensitive; containers must remain tightly sealed. Recommended storage temperature: 0–40 °C. Refer to the SDS for detailed handling, PPE, and safety instructions.

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