Polyvion®

Product Name : Polyvion® ISO-M 00

CAS number : Mixture

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

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO-M 00 is a solvent-borne polyisocyanate crosslinker based on toluene diisocyanate (TDI) and hexamethylene diisocyanate (HDI) chemistry.

It is designed for use as a crosslinking component in two-component polyurethane systems for industrial applications. When reacted with suitable polyols or hydroxyl-functional resins, it provides coatings and adhesives with good chemical resistance, mechanical strength, and durability.

2. Typical Applications

Polyvion® ISO-M 00 is typically used as a crosslinker in:

- Industrial polyurethane coatings
- Protective and anticorrosive coatings
- Adhesives and sealants
- Elastomer systems
- Printing inks and specialty coatings

Actual suitability and performance depend on formulation design, resin selection, stoichiometry, and processing conditions applied by the user.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical state	–	Liquid	Visual
Appearance	–	Yellow to brown liquid	Visual
NCO content	%	~13–15	Internal Method

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Property	Unit	Typical Value	Test Method
Density (20 °C)	g/cm³	~1.13	DIN 51757
Dynamic viscosity (23 °C)	mPa·s	~2,000–2,500	DIN EN ISO 3219
Flash point	°C	~28	DIN 53213
Solubility	–	Insoluble in water; reacts	Practical test

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

4. Recommended Use

Polyvion® ISO-M 00 is intended for industrial polyurethane systems and should be reacted with appropriate polyols, hydroxyl-functional acrylics, polyesters, or alkyd resins.
Formulation ratios (NCO/OH), curing temperature, and application conditions must be optimized and validated by the user. Moisture must be strictly controlled during processing, storage, and application.

5. Packaging & Logistics

Polyvion® ISO-M 00 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® ISO-M 00 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 and reacts with water to generate carbon dioxide. Containers must be kept tightly sealed.
Recommended storage temperature: 0–50 °C. Refer to the SDS for detailed handling, PPE, and safety instructions.

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