Polyvion®

Product Name : Polyvion® ISO-M 14

CAS number : Mixture

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

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO-M 14 is a solvent-borne aromatic polyisocyanate crosslinker based on toluene diisocyanate (TDI) chemistry with a nominal non-volatile content of approximately 51%.
It is designed as the hardener component for fast-drying two-component polyurethane (2K PU) systems, providing rapid initial drying and early handling strength when reacted with suitable hydroxyl-functional resins.

2. Typical Applications

Polyvion® ISO-M 14 is typically used as a crosslinker in:

- Industrial wood coatings
- Furniture coatings
- Fast-drying polyurethane coatings
- Adhesives

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	–	Clear to slightly yellow	Visual
Non-volatile matter	%	~49–53	ISO 3251

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Property	Unit	Typical Value	Test Method
NCO content	%	~7.2–7.6	ISO 11909
Viscosity (23 °C)	mPa·s	~175–325	ISO 3219
Color (Iodine value)	–	≤1.0	EN 1557
Monomer content	%	<0.50	ISO 10283
Density (20 °C)	g/cm³	~1.07	DIN EN ISO 2811-3
Flash point	°C	~26	DIN EN ISO 1523
Equivalent weight	–	~570	Calculated

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

4. Recommended Use

Polyvion® ISO-M 14 is intended for use with polyester, acrylic, alkyd, or compatible polyol resins in fast-drying 2K PU systems.

An NCO/OH ratio of approximately 0.5–0.7 is commonly applied depending on polyol reactivity and required hardness. For higher crosslink density (near 1:1 NCO/OH), the product may be used in combination with other aromatic or aliphatic polyisocyanates, subject to formulation validation by the user.

Strict moisture control is required, as isocyanates react with water.

5. Packaging & Logistics

Polyvion® ISO-M 14 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 14 should be stored in its original, tightly closed containers in a cool, dry, and well-ventilated area, protected from moisture, heat, and foreign materials.

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

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