Polyvion®

Product Name : Polyvion® ISO-M 13

CAS number : Mixture

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

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO-M 13 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 51%.

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

2. Typical Applications

Polyvion® ISO-M 13 is typically used as a crosslinker in:

- Fast-drying industrial polyurethane coatings
- Wood and furniture coatings
- Coating systems requiring short drying and sanding times
- 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	–	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 (23 °C)	mPa·s	~850–1,750	ISO 3219
Color value (Iodine)	–	≤1.0	EN 1557
Monomeric TDI	%	<0.10	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-M 13 is intended for use with hydroxyl-functional polyester or acrylic polyols 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 should be used. Alcohols are not recommended due to reactivity with isocyanates.

5. Packaging & Logistics

Polyvion® ISO-M 13 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 13 is moisture-sensitive and should be stored sealed in a cool, dry, well-ventilated area at 0–30 °C. Higher temperatures may increase viscosity. Shelf life is at least 9 months. Refer to SDS for handling and PPE.

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