Polyvion®

Product Name : Polyvion® ISO-M HT10

CAS number : Mixture

Chemical Type : Aliphatic Polyisocyanate (HDI-based, solvent-free)

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO-M HT10 is a solvent-free aliphatic polyisocyanate crosslinker based on hexamethylene diisocyanate (HDI) chemistry.

It is supplied as a colorless to slightly yellowish clear liquid and is designed for use as the hardener component in lightfast two-component polyurethane (2K PU) systems. When reacted with suitable hydroxyl-functional resins, it provides cured films with excellent weathering resistance, chemical resistance, gloss retention, and mechanical properties.

2. Typical Applications

Polyvion® ISO-M HT10 is typically used as a crosslinker in:

- Automotive refinishing coatings
- Transportation coatings
- Industrial finishing coatings
- Plastics 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 slightly	Visual
NCO content	%	~21.7–22.2	ISO 11909

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Property	Unit	Typical Value	Test Method
Viscosity (25 °C)	mPa·s	~1,750–3,250	ISO 3219
Color (APHA)	–	≤40	ISO 6271
Monomeric HDI	%	≤0.2	ISO 10283
Density (25 °C)	g/cm³	~1.16	ISO 2811
Equivalent weight	g/eq	~193	Calculated

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

4. Recommended Use

Polyvion® ISO-M HT10 is intended for use with hydroxyl-functional polyacrylates or polyester polyols in 2K PU systems requiring lightfastness and high durability.

Formulation parameters such as NCO/OH ratio, curing temperature, pot life, and application method should be optimized and validated by the user.

Only PU-grade solvents may be used for dilution if required (≤0.05% water; no reactive groups such as hydroxyl or amino). Prolonged dilution to significantly lower solids is not recommended.

5. Packaging & Logistics

Polyvion® ISO-M HT10 is supplied in standard industrial packaging such as 20 kg, 60 kg, 220 kg metal drums, as well as IBC or ISO tank upon request, 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 HT10 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.

Recommended storage temperature: 0–30 °C. Storage at elevated temperatures may result in increased color and viscosity.

Under recommended storage conditions, the product maintains stability for at least 15 months from the date of manufacture. Refer to the SDS for detailed handling instructions and PPE requirements.

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