Polyvion®

Product Name : Polyvion® ISO-A 75

CAS number : Mixture

Chemical Type : Aromatic Polyisocyanate (solvent-borne, ~75% NVM)

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO-A 75 is a solvent-borne aromatic polyisocyanate crosslinker with a nominal non-volatile matter of approximately 75%.

It is designed for use as the curing component in two-component polyurethane (2K PU) systems for industrial coatings and adhesive applications. When reacted with suitable hydroxyl-functional resins, it provides cured films with good mechanical strength, adhesion, and chemical resistance.

2. Typical Applications

Polyvion® ISO-A 75 is typically used as a crosslinker in:

- Industrial polyurethane coatings
- Protective and anticorrosive coatings
- Adhesives and sealants
- Specialty and printing 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	–	Almost colorless to pale	Visual
Non-volatile matter	%	~75	ISO 3251

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Property	Unit	Typical Value	Test Method
NCO content	%	~13–15	Internal Method
Density (20 °C)	g/cm³	~1.15–1.18	DIN 51757
Viscosity (23 °C)	mPa·s	~1,500–2,000	ISO 3219
Flash point	°C	~5	DIN 51755
Solubility	–	Insoluble in water; reacts	Practical test

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

4. Recommended Use

Polyvion® ISO-A 75 is intended for use with hydroxyl-functional acrylic, polyester, or alkyd resins in 2K PU systems.

Formulation parameters such as NCO/OH ratio, curing temperature, pot life, and application method 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® ISO-A 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® ISO-A 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 and reacts with water to generate carbon dioxide; 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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