Polyvion®

Product Name : Polyvion® ISO-AR 15

CAS number : Mixture

Chemical Type : Aromatic Polyisocyanate Prepolymer (TDI-based)

Business Unit : Polyurethane

1. Product Description

Polyvion® ISO-AR 15 is a TDI-based aromatic polyisocyanate prepolymer supplied as a medium-viscosity liquid with relatively low NCO content.

It is designed for use as a hardener or crosslinking component in polyurethane systems where high flexibility, crack-bridging capability, and high-build films are required. The product is suitable for both two-component (2K) and, when combined with latent hardeners, one-component (1K) PU systems.

2. Typical Applications

Polyvion® ISO-AR 15 is typically used in:

- Flexible polyurethane coatings
- Crack-bridging coatings for concrete surfaces
- Sealants and sealing compounds
- High-build elastomeric coatings
- Roofing and waterproofing systems

Actual suitability and performance depend on resin selection, 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 pale yellow	Visual
NCO content	%	~4.2–4.6	ISO 11909

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Property	Unit	Typical Value	Test Method
Viscosity (23 °C)	mPa·s	~6,000–8,000	ISO 3219
Monomeric TDI	%	<0.5	ISO 10283
Density (20 °C)	g/cm³	~1.05	ISO 2811
Iodine color value	–	≤2	EN 1557
Equivalent weight	–	~950	Calculated
Flash point	°C	~190	ISO 2719

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

4. Recommended Use

Polyvion® ISO-AR 15 is used with suitable polyols or hydroxyl resins for flexible 2K PU systems, and with latent hardeners for flexible 1K PU systems. NCO/OH ratio and curing conditions must be validated by the user. Alcohol solvents must be avoided; only PU-grade, low-moisture solvents (<0.05% water) are recommended.

5. Packaging & Logistics

Polyvion® ISO-AR 15 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-AR 15 is moisture-sensitive and should be stored in its original, tightly closed containers in a cool, dry, and well-ventilated area.

Recommended storage temperature: 10–30 °C. Storage at elevated temperatures may result in increased viscosity. Protect from moisture, heat, and foreign materials. Refer to the SDS for detailed handling instructions and PPE requirements.

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