Polyvion®

Product Name : Polyvion® WAD U30

CAS number : Mixture

Chemical Type : Hydrophobically Modified Polyurethane Thickener (HEUR, waterborne)

Business Unit : Polyurethane

1. Product Description

Polyvion® WAD U30 is a non-ionic, Newtonian polyurethane associative thickener for waterborne formulations.

It is designed to efficiently build high-shear viscosity while maintaining excellent flow and leveling. The product features ultra-low odor and is formulated without APEO, organotin, or organic solvents, making it suitable for low-VOC waterborne systems.

2. Typical Applications

Polyvion® WAD U30 is typically used in:

- Waterborne architectural and industrial coatings
- Waterborne wood coatings
- Waterborne inks and varnishes
- Waterborne adhesives and sealants

Actual suitability and performance depend on binder system, 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 milky	Visual
Solid content	wt%	~19–21	Internal Method (150 °C,

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Property	Unit	Typical Value	Test Method
pH (25 °C)	–	~6.0–10.0	GB 8325
Viscosity (25 °C)	mPa·s	~3,000–8,000	Brookfield RV, #5 / 30
Density (25 °C)	g/cm³	~1.04 ± 0.05	GB/T 4472
Chemical nature	–	Hydrophobically modified	–

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

4. Recommended Use

Polyvion® WAD U30 may be added directly during paint make-up or pre-diluted with water before addition.

The recommended dosage range is 0.1–3.0 wt% (as supplied, based on total formulation), depending on binder type and target viscosity.

The exact addition level should be determined by pre-formulation trials. Polyvion® WAD U30 is effective across a wide pH range and is compatible with common waterborne binder systems.

5. Packaging & Logistics

Polyvion® WAD U30 is supplied in standard industrial packaging such as plastic drums or IBCs, 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® WAD U30 should be stored in its original, tightly closed containers in a cool, dry place, protected from direct sunlight.

Recommended storage temperature: 5–35 °C. The product must be protected from freezing.

Under recommended storage conditions, the product maintains stability for at least 12 months from the date of manufacture. Performance evaluation is recommended if stored beyond this period. Refer to the SDS for detailed handling and safety instructions.

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