Polyvion®

Product Name : Polyvion® WAR A42

CAS number : Mixture

Chemical Type : Aliphatic Polyurethane Dispersion (PUD, waterborne)

Business Unit : Polyurethane

1. Product Description

Polyvion® WAR A42 is an aliphatic polyurethane dispersion designed for waterborne coating systems. The product is APEO-free, solvent-free, and tin-free, and is suitable for clear and pigmented wood coatings for both interior and exterior applications.

Cured films provide fast drying, high hardness, good film build, and excellent stackability, making it suitable for demanding waterborne finishing systems.

2. Typical Applications

Polyvion® WAR A42 is typically used in:

- Waterborne wood coatings (clear and pigmented)
- Interior and exterior furniture coatings
- Industrial waterborne coatings requiring fast hardness development
- Clear topcoats and primers

Actual suitability and performance depend on formulation design, substrate preparation, and application conditions applied by the user.

3. Key Characteristics (Typical)

Property	Unit	Typical Value	Test Method
Physical state	–	Aqueous dispersion	Visual
Appearance	–	Translucent to milky	Visual
Solid content	wt%	~39–41	Internal Method

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Property	Unit	Typical Value	Test Method
pH (25 °C)	–	~7.0–9.0	GB 8325
Minimum film-forming	°C	~48	GB/T 9267
Viscosity (25 °C)	mPa·s	~10–500	GB/T 2794 (Brookfield)

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

4. Recommended Use

Polyvion® WAR A42 is suitable for one-component waterborne PU coating systems.
It may be used alone or formulated with suitable waterborne additives (wetting agents, defoamers, rheology modifiers) to optimize application and film properties.
Formulation parameters, curing conditions, and substrate compatibility should be validated by the user through appropriate testing prior to production use.

5. Packaging & Logistics

Polyvion® WAR A42 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® WAR A42 should be stored in its original, tightly closed containers in a cool and 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 assessment is recommended if stored beyond this period. Refer to the SDS for detailed handling and safety instructions.

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