Polyvion®

Product Name : Polyvion® WAR A45

CAS number : Mixture

Chemical Type : Self-crosslinking Acrylic Copolymer Emulsion (waterborne)

Business Unit : Polyurethane

1. Product Description

Polyvion® WAR A45 is a self-crosslinking acrylic copolymer emulsion designed for waterborne coating systems.

It features fine particle size, clear wet and dry film appearance, fast property development, and high film hardness. The cured films exhibit good sandability and excellent chemical resistance. The product is formulated without added APEO, and is formaldehyde-free and free of formaldehyde releasers.

2. Typical Applications

Polyvion® WAR A45 is typically used in:

- Waterborne wood coatings
- Plastic coatings (e.g., ABS, PC, PVC)
- Industrial waterborne topcoats
- Clear and pigmented coatings requiring high hardness

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	–	Liquid emulsion	Visual
Appearance	–	Translucent to milky	Visual
Solid content	wt%	~39–41	Internal Method (150 °C,

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Property	Unit	Typical Value	Test Method
pH (25 °C)	–	~7.0–9.0	GB 6920
Minimum film-forming	°C	~35	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 A45 is suitable for self-crosslinking waterborne coating systems where high hardness, fast drying, and chemical resistance are required.

It demonstrates good adhesion to various substrates, including wood and common plastics. Formulation parameters, additives, and curing conditions should be optimized and validated by the user through appropriate testing.

5. Packaging & Logistics

Polyvion® WAR A45 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 A45 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. Once opened, it is recommended to use the product promptly.

Under recommended storage conditions, the product maintains stability for at least 12 months from the date of manufacture. Refer to the SDS for detailed handling and safety instructions.

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