JD-206 | Polyfunctional Aziridine Crosslinker

Overview

JD-206 is a polyfunctional aziridine crosslinker for applications requiring high crosslinking efficiency, water, heat and chemical resistance, creep resistance and long-term stability. It reacts with carboxyl groups at room temperature, is suitable for carboxyl-functional systems, is miscible with water and various organic solvents, and can also react under dry conditions.

Typical dosage: 1%-3% based on acrylic or polyurethane binder solids. Cure at room temperature or bake at 60-100 °C. For emulsions and dispersions, a formulation pH of 8-10 is recommended. Crosslinking improves water and chemical resistance, dry and wet rub resistance, anti-blocking properties and coating durability, and enhances adhesion to certain substrates.

Typical Properties

Type: Polyfunctional aziridine crosslinker	Viscosity (mPa·s): 50-100
Solubility: Readily soluble in water, alcohols, ketones and esters	Appearance: Colorless or pale yellow liquid
Storage stability (25 °C): 12 months	Active content: 100%
Water solubility: ≥2	Free amine content: ≤0.1%
pH (25 °C): 7.5-9	

Applications

- Waterborne wood coatings: improves water, abrasion and chemical resistance and adhesion.
- Leather coatings: improves dry/wet rub fastness and chemical resistance.
- Textile printing pastes: improves resistance to stonewashing and enzyme washing and reduces surface blocking.
- Waterborne adhesives: enhances cohesion and helps reduce adhesive residue from protective films on substrates.
- Waterborne inks: improves water and wet-rub resistance and coating printability.
- Waterborne sealants: improves water resistance; enhances cohesion in cement-based systems.
- Vinyl coatings: reduces plasticizer migration and improves stain resistance.
- Waterborne industrial coatings: improves water and solvent resistance.

Safety, Storage and Packaging

For industrial use only. Wear suitable personal protective equipment and avoid skin and eye contact. If discomfort occurs, stop exposure, follow the SDS first-aid instructions and seek medical attention promptly. Do not use in acidic media.

Packaging: 5 kg plastic pails and 25 kg plastic-lined drums.

Storage: Store at room temperature in a dry, well-ventilated place away from light. Reseal promptly after opening to minimize air exposure and maintain product quality.

Important Notes

1. Industrial chemical. Wear suitable personal protective equipment and avoid direct skin and eye contact.
2. Collect spills promptly. Prevent entry into drains, soil and bodies of water.
3. Store, transport and dispose of the product in accordance with the SDS, label and applicable regulations.
4. For reference only. Complete laboratory trials, pilot trials and application validation before bulk use.