JD-200 | Polyfunctional Aziridine Crosslinker

Overview

JD-200 is a polyfunctional aziridine crosslinker that reacts with carboxyl groups at room temperature, making it suitable for carboxyl-functional systems. It is miscible with water and many organic solvents and also reacts 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, the recommended formulation pH is 8-10. Crosslinking enhances water and chemical resistance, dry and wet rub resistance, anti-blocking properties and coating durability, and improves adhesion to certain substrates.

Typical Properties

Type: Polyfunctional aziridine crosslinker	Viscosity (25 °C, mPa·s): 20-100
Pot life (h): 48	Appearance: Colorless or pale yellow liquid
Storage stability (25 °C): 12 months	
Water solubility: Miscible with water in any ratio	Free amine: Not detected
pH (25 °C): 9-11	Freezing point: Approx. -15 °C
Boiling point: Approx. 200 °C	Solubility: Readily soluble in water, alcohols, ketones and esters

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 left by 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 alcohol resistance.

Safety, Storage and Packaging

For industrial use only. Wear suitable personal protective equipment and avoid skin and eye contact. If skin contact occurs, rinse immediately with clean water. 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 prevent gelling.