H-1100E Polyurethane Associative Thickener

Technical Specifications

Property	Specification
Appearance	Colorless or pale yellow transparent substance
Solid Content	40±2%
Colloidal Charge	Non-ionic
Viscosity at 25℃	5000-8000 mPa.s
Specific Gravity at 25℃	1.02-1.06

Product Characteristics

1. Strong associative thickening; exhibits high viscosity at low shear rates, strong pseudoplasticity, and high thixotropy.
2. Free of toxic substances such as organic tin and APEO.
3. Good dispersibility, aiding in the wetting and dispersion of pigments in the formulation.
4. Nonionic, unaffected by the pH of the system.
5. No adverse effect on the gloss of formulated products.
6. Low shear stability.

Application Range

Suitable for use in water-based coatings, water-based adhesives, water-based inks, textile coatings, and leather finishes.

Precautions

1. The associative thickening effect is temperature-dependent; viscosity is higher at low temperatures and lower at high temperatures, so temperature conditions should be considered when designing formulations.
2. If the batch of raw materials being thickened changes, retesting is recommended to determine the appropriate amount of thickener.
3. This product may crystallize at low temperatures. Crystallization does not affect product performance, but if crystallization occurs, the crystals should be melted by heating before use.

Storage Conditions

This product can be stored for one year in its original sealed packaging within the temperature range of 5℃ to 35℃.

The information we provide about the product is complete and reliable, but given the variability and complexity of application conditions, any specific application of our product should be tested and evaluated in advance.