



TU-202

Polyurethane associated thickener



Overview

TU-202 is a non-ionic polyurethane associative thickener primarily suitable for various aqueous systems. It provides excellent thickening effects at high shear viscosity while ensuring superior flow and leveling properties. It is a non-toxic, low-odor, and environmentally friendly thickening and leveling dual-function rheological modifier.

Physicochemical Properties

Appearance	Transparent, slightly yellow liquid	Composition	Non-ionic associative polyurethane
Solid content	20.0 ± 1.0 %	Solvent	Water
Density	1.02 g/ml	Viscosity at 25°C	1800-4000 cp

Characteristics & Advantages

TU-202 exhibits rheological characteristics similar to a Newtonian fluid.

- Contains no organic solvents, heavy metals, organotin compounds, or APEO compounds; classified as a non-toxic, low-odor, environmentally friendly product
- Provides thickening at high shear viscosity, ensuring the film-forming performance and density of coatings
- Excellent brush feel, resistance to splashing during roller application, and durability against water, alkali, scrubbing, staining, and delamination
- Outstanding flow, leveling properties, and hiding power without affecting gloss
- Easy to use; can be added at any stage without prior dilution or alkaline neutralization; thickening and leveling effects can be achieved instantaneously
- Performance is unaffected by pH and can be used over a wide pH range
- High resistance to microbial and enzymatic degradation

Dosage

In typical formulations, TU-202 is often used in combination with TU-205, TU-208, and TU-209. In small particle size emulsions, TU-202 can be used alone as a leveling agent and thickener.

Recommended dosage: 0.25%-2.0%

Application	Water-based architectural coatings, water-based industrial coatings, water-based adhesives, water-based inks, and petrochemical water treatment.
Precautions & Storage	Store in a cool, ventilated place; keep containers tightly sealed. During winter storage, take antifreeze measures (e.g., if frozen, stir adequately after thawing to continue use). Under recommended storage conditions, the product has a shelf life of 2 years.
Safety	Refer to MSDS
Packaging	25 KG/Barrel