

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%

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For further detailed information, please contact our company directly.

The information provided is compiled based on our current knowledge and is intended for reference only. No guarantees are made. We reserve the right to modify product parameters within the scope of process advancements or product development. Due to the wide range of processing conditions and raw material combinations beyond our control, users are advised to conduct suitability tests before production.

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Water-based architectural coatings, water-based industrial coatings, **Application**

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

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