



## TU-208

# Polyurethane associated thickener



### Overview

TU-208 is a non-ionic polyurethane associative thickener primarily suitable for various aqueous systems. It offers efficient thickening effects at medium to high shear viscosity while providing outstanding flow and leveling properties, as well as excellent film-forming uniformity and gloss enhancement. It is a non-toxic, low-odor, and environmentally friendly dual-function rheological modifier for thickening and leveling.

### Physicochemical Properties

<b>Appearance</b>	Transparent, slightly yellow liquid	<b>Composition</b>	Non-ionic associative polyurethane
<b>Solid Content</b>	30.0 ± 2.0 %	<b>Solvent</b>	Water/BCS
<b>Density</b>	1.10 g/ml	<b>Viscosity at 25°C</b>	3000-5000 cp

### Characteristics & Advantages

- Contains no organotin compounds or APEO compounds; classified as a non-toxic, low-odor, environmentally friendly product
- Efficient thickening at medium to high shear viscosity with polar flow and leveling properties
- Provides excellent opening can performance, high thickening efficiency, and resistance to splashing during roller application; durable against water, alkali, scrubbing, staining, and delamination 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
- Higher effective solid content for better thickening effects, making it more economical

### Dosage

In typical formulations, TU-208 is often used in conjunction with TU-202 (for low PVC and small particle size emulsions). In large particle size emulsions, TU-208 can be used alone as a leveling and thickening agent. Recommended dosage: 0.2%-1.0%

### Application

Water-based architectural coatings, water-based industrial coatings, water-based adhesives, water-based inks, and petrochemical water treatment.

## Precautions & Storage

When used in combination with TU-202, add TU-202 first. Under conditions of insufficient mixing during production, it is recommended to dilute with ethylene glycol or propylene glycol at a 1:1 ratio before use; avoid sharing with polyacid dispersants.

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