

**Overview** 

TU-209 is a non-ionic polyurethane associative thickener primarily suitable for various aqueous systems. It provides efficient thickening at medium to low shear viscosity, enhances anti-sag properties and opening can performance, while still maintaining good flow and leveling characteristics. It is a non-toxic, low-odor, environmentally friendly product.

Physicochemical Properties	Appearance	Transparent, slightly yellow liquid	Composition	Non-ionic associative polyurethane
	Solid Content	$25.0 \pm 1.0 \%$	Solvent	Water/BCS
	Density	1.10 g/ml	<b>Viscosity at</b> 25°C	3000-5000 ср

**Characteristics &** TU-209 exhibits outstanding pseudoplastic rheological properties.

**Advantages** 

- Free of organotin compounds and APEO compounds, making it a • non-toxic, low-odor, environmentally friendly product
- Efficient thickening at low shear viscosity, making it particularly • suitable for spraying and thick coating applications
- Provides excellent feedability, improving anti-sag properties and opening can performance
- Outstanding resistance to water, alkali, scrubbing, staining, corrosion, and delamination
- Ensures uniform film thickness and coverage without affecting gloss
- Easy to use; can be added at any stage without prior dilution or • alkaline neutralization; thickening and leveling effects are 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

## **NEW-TECHEM**

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 www.new-techem.com conditions and raw material combinations beyond our control, users are advised to conduct suitability tests before production.

Dosage	Typically, TU-209 is used in conjunction with TU-202 in formulations.		
	Recommended dosage: 0.3%-0.5%		
Application	Water-based architectural coatings, water-based industrial paints, water- based adhesives, water-based inks, and petrochemical water treatment		
Precautions & Storage	When used 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		

**NEW-TECHEM** 

www.new-techem.com

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.