

Rheology Additive Thixoster™

- Thixoster, amphiphilic polyurethane material, is a water-soluble material based on polyethylene glycol (PEG) with hydrophobic comb-shaped diol.
- It can impart thickening and thixotropic properties when added to a solution
- It can be used as a binder for ceramics, as a paint additive, and as a thickener for mortar extrusion molding.

PRODUCT OVERVIEW

Ether-Based Amphiphilic Polyurethane

This polyurethane features a unique molecular structure composed of a hydrophilic main chain and hydrophobic side groups.

The image of the polymer structure

Hydrophilic Chain



Product Name	Thixoster® 50 K
Physical Form	White powder
Molecular Weight	Mn 270,000 Mw 1,050,000
Viscosity of 2% Aqueous sol.	Approx. 50,000 ,mPa · s
Melting point	60 °C
Carbonization Temp.	280 ~ 300°C

PRODUCT FEATURE

Viscosity

Obtain viscosity to water and some polar organic solvent

Rheology/ Thixotropy

Obtain thixotropy when external force is applied

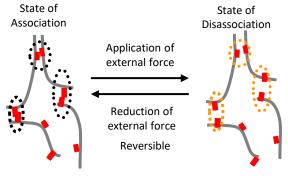
Non-ionic organic compound

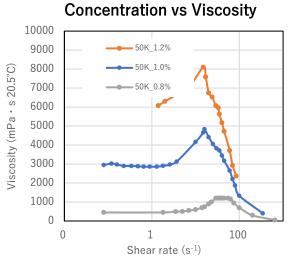
odorless white powder, completely combustion in certain conditions

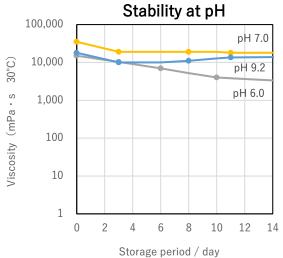
Contact information

RHEOLOGY PROPERTIES

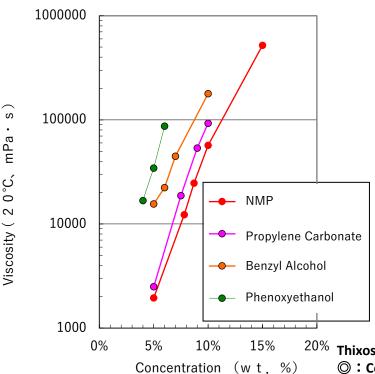








SOLVENT SOLUBILITY



Solubility
0
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0
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0

20% Thixoster Solubility at 5%

Completely soluble at room temperature(r.t.)

○ : Partially soluble at r.t., Completely soluble at 60 °C

∴ Insoluble at r.t., Completely soluble at 60°C

Contact information