

Product Information

Product Name:Rheology Modifier T80

T80 is a high solids and nonionic hydrophobically modified ethylene oxide urethane (HEUR) rheology modifier designed for waterborne architectural, industrial and functional coatings. It is APEO and OrganoTin free.

T80 is highly efficient for building both KU and Brookfield viscosity and provides low-shear viscosity with a high shear thinning rheology profile. T80 is compatible with acrylic, styrene-acrylic and vinyl-acrylic latexes, and can be used in interior and exterior paints for better sag resistance, film formation, water resistance, excellent spatter resistance, high gloss development and good in-can structure.

T80 is particularly suited for use as a co-thickener to improve flow/sag balance with other thickeners, such as T20. T80 highly shear thinning rheology profile makes it ideal for spray application and thick application.

Features and Benefits:

- Good in-can appearance, highly efficient for building KU and Brookfield viscosity
- APEO and OrganoTin free, an environmental friendly product
- Excellent sag resistance for thick application and spray application, spatter resistance
- Water resistant, excellent application hiding and full gloss development
- Supplied as low viscosity liquid, easy to handle and incorporate during latex paint manufacturing process
- Bio-stable and resistant to microbial attack

Typical Physical Properties:

Item	Range
Chemical type	Nonionic HEUR
Appearance	Hazy liquid
Solids, weight %	25
Carrier	Butyl Carbitol/Water
As supplied viscosity, cP	3000 - 5000
Density, lb/gallon	8.6-8.8

* Data presented above are typical values and should not be construed as specifications

Dosage and Incorporation :

T80 is typically added to the letdown. The usage depends on the system being thickened and the rheological performance desired. Typical use levels can vary from 0.3 to 1.5% of paint. However, in cases where there is limited agitation at this stage, T80 can be added to the letdown before the latex. When T20 or T30 and T80 are used together in small particle latex paints, T20 or T30 should be added first. In large particle size vinyl-acrylic latex paints, T80 should be added to the letdown before the latex during the paint manufacturing process for a better incorporation.



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Application:

T80 can be used in a variety of latex paint formulations, and is compatible with other rheology modifiers. When used in low-PVC latex paints made with small particle size hydrophobic acrylic and styrene/acrylic binders, T80 is particularly suited in combination with high shear ICI viscosity builders such as T20 or T30 to increase high-shear viscosity in flat through gloss formulations. T80 highly shear thinning rheology profile makes it ideal for spray and thick application.

Storage

Subject to appropriate storage under the usual storage and temperature conditions, this product is durable for 24 months.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

When considering the use of any Rickman product in a particular application, you should read and understand our Safety Data Sheet (SDS) before using this product and ensure that the use you intend can be conducted safely. Rickman sends SDS with shipment of all of our products. The SDS contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.