

# Product Information

**Product Name:**Rheology Modifier T90

T90 to T104 series of rheology modifiers represent the latest advance in synthetic Hydrophobically modified Alkali-Swellable anionic associative Emulsion thickener (HASE) technology. T90-T104 series provide customers the opportunity for thickener consolidation with improved performance in architectural and functional coatings.

T90 is a high-efficiency thickener and is designed for imparting premium rheology in waterborne architectural, functional and paper coatings. This product offers a unique balance of KU, ICI and Brookfield viscosity efficiency, and yet provides excellent flow/ leveling, outstanding roller spatter resistance and great film formation in most formulations. It is typically recommended for interior flat through sheen, satin paints.

T90 provides a low cost/high performance alternative to cellulosic thickeners. It is supplied at 30% solids and low viscosity for easy pour and pump, incorporation and rapid viscosity. It is highly resistant to attack by microbes and their enzymes.

**Features and Benefits:**

- APEO and OrganoTin free, low odor, cost effective
- High KU and ICI efficiency and rapid viscosity
- Excellent roller application and spatter resistance
- Superior uniform film formation and hiding
- Excellent balance of sag resistance and leveling
- Compatible with other rheology modifiers
- Supplied as low viscosity liquid, easy to handle and incorporate during product manufacturing process
- Bio-stable and resistant to microbial attack

**Typical Physical Properties:**

Item	Range
Chemical type	Anionic HASE
Appearance	Off-white, milky liquid
Solids, weight %	30
pH	2.5 - 3.5
Carrier	Water
As supplied viscosity, cP	< 50
Density, lb/gallon	8.7-8.9

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

**Dosage and Incorporation :**

Depending on the system being thickened and the rheological performance desired, typical use levels can vary from 0.3 to 1.0% of paint. T90 can be added directly to the production vessel without pre-dilution as long as sufficient base is added to the system prior to its addition and sufficient agitation is available. However, in cases where there is limited agitation, pre-dilution of this product with water is



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recommended prior to its addition. Like other high molecular weight polymeric thickeners, although most of the thickening efficiency becomes realized in minutes, an equilibrated viscosity of paint or the full realization of the thickening efficiency is expected to be achieved in 24 hrs.

### Application:

This product is compatible with many other rheology modifiers. Depends on the rheology profile desired, T90 can be used as a sole thickener in many interior formulations to achieve outstanding properties of spatter resistance, flow and leveling. It is suitable to interior paints made with different classes of emulsions. In high-PVC formulations, a combination of T90 and T102 will increase the low-shear viscosity and improve the properties of sag resistance. In low-PVC formulations, a combination of T90 and a high shear ICI viscosity builder such as T20, T30 or T100 will increase ICI viscosity for better properties of film formation, hiding, flow and leveling, and the viscosity stability to colorant additions.

### Storage

Subject to appropriate storage under the usual storage and temperature conditions, this product is durable for 18 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.**