

Product Information

Product Name:Rheology Modifier T103

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

T103 is a synthetic Hydrophobically modified Alkali-Swellable anionic associative Emulsion thickener (HASE) designed for waterborne architectural and functional coatings. T103 offers a base-activated high efficiency for low shear (Brookfield) and mid-shear (KU) viscosity, and is particularly recommended for interior high PVC flat through sheen paint formulations. T103 provides application and feel properties very similar to high grades of cellulosic. Its outstanding roller spatter resistance, high water phase thickening efficiency and high pseudo-plastic viscosity profiles make it an ideal replacement of HEC type of products. T103 is an off-white, milky emulsion with a 30% solids and a low viscosity for easy pour and pump, and is easy to incorporate into the paint and is highly resistant to attack by microbes and their enzymes.

Features and Benefits:

- APEO and OrganoTin free, low odor, cost effective
- High KU and Brookfield viscosity efficiency and rapid viscosity
- Excellent roller spatter resistance and sag resistance
- Good paint stability and consistency for thick and creamy in-can appearance
- 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	2.0 - 4.0
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 0.2 to 0.8% of paint. T103 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 recommended prior to its addition. Like other high molecular weight polymeric thickeners, although



Product Information

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:

T103 can be used in a variety of latex paint formulations, and is particularly well suited to vinyl-acrylic, flat and low-sheen interior formulations, including those above CPVC low volume solids paints. T103 can also be used with other thickeners such as T90 and T100 to improve the properties of flow and leveling.

Storage

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

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.