Product Information

Product Name: Dispersant and Scale Inhibitor T107

T107 is a sodium salt polyelectrolyte of synthetic hydrophobic copolymer. It is an extremely versatile pigment dispersant for acrylic, vinyl acrylic, and acrylic/styrene based coatings, and can be expected to give good dispersion, stability, and film properties in a broad array of coating systems. T107, a hydrophobic polymer based carboxylate polyelectrolyte, brings many formulating benefits to coatings applications including very effective with inorganic pigments, superior gloss development, good hiding at economical use levels formaldehyde free and better film formation.

When formulated with a high performance binder and other high-quality additives, T107 can also provide greater corrosion resistance to water based industrial coating formulations. It can be used in a wide range of formulations, including flat primers, low VOC paints, interior and exterior flat, sheen, and semi-gloss paints, and glossy topcoats.

T107 is also a very effective scale and corrosion inhibitor for use in various aqueous systems. To aqueous systems such as boiler feed water and re-circulated cooling water, T107 can be used as an effective inhibitor in a wide range of temperature to inhibit corrosion and scale deposits on equipment surfaces, to promote efficient heat transfer and exchange, to decrease equipment damage and increase its life time.

T107 is supplied at 30% solids in sodium form, low viscosity and low foaming for ease of use.

Features and Benefits:

Very effective with inorganic pigments
Excellent pigment wetting capability
Superior gloss and color development
Excellent overall compatibility and utility in a wide range of formulations
Good compatibility with HEUR rheology modifiers
Improve film formation and corrosion resistance
Low foam and easy to process and handle
Effective scale inhibitor in a wide range of temperature for water systems

Typical Physical Properties:

Item	Range
Chemical type	Hydrophilic copolymers
Appearance	Brown liquid
Solids, weight %	30
pH	9 - 11
Carrier	Water
Density, lb/gallon	9.1-9.3

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

Xiamen Rickman Chemical Technology CO., Ltd.
Add: No 1267 Qianpu South Road, Siming District, Xiamen City, Fujian Province, China
Email: info@rickmanchemical.com

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Application and Dosage:

This product is compatible with nonionic HEUR associative rheology modifiers. For coatings applications, the usage level of T107 depends on the formulations. It is important to determine the proper dispersant levels in paint formulations. At a low level of usage, the dispersion could be inadequate that will impact on the properties of gloss, hiding and paint stability. It should be tested at 0.2 to 0.6% active ingredient based on total pigment weight to determine the appropriate usage level. When T107 is used as a scale inhibitor for water treatment systems, it is not recommended to be used where temperature is higher than 360C..

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 safety. 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.