

PAT-ADD RHEOL 99

Product Data Sheet

Rev 01

April 2018



Product Features

PAT-ADD RHEOL 99 is HEUR based liquid rheology modifier for aqueous systems.

PAT-ADD RHEOL 99 demonstrates excellent anti-settling and anti-sagging properties and reduces the risk of roller spattering during paint application.

Moreover, the product is superior to classic rheology modifiers in water resistance and salt-spray of the dry film.

PAT-ADD RHEOL 99 is ready for use and easy to incorporate.

Main benefits are:

- Provides excellent flow and leveling
- Excellent shelf stability
- Reduces risk of roller spattering during application
- Supplied as liquid, ease to dose, handle, incorporate
- Hydrophobic nature, for excellent film scrub and water resistance
- Designed for high PVC systems to gloss emulsion paints and varnishes

Physical Characteristics:

Appearance	:	Hazy Colorless to Pale Yellow liquid
Viscosity @ 25°C	:	8000 - 40000 cP
Specific gravity @ 25°C	:	1.040 – 1.080
Polarity	:	Non-ionic
%Active matter content (120°C/1hr)	:	32.0 - 38.0 %

“Physical parameters indicated here in product data sheet are typical properties and not specification limits or range.”

Properties:

PAT-ADD RHEOL 99 ensures optimal rheological behavior of dispersion paints. Associative interactions with polymer as well as micelles, are developed with Pat-Add Rheol 99 molecules to form a thixotropic structure and observed viscosity increase.

The highest thickening efficiency is obtained in polymer dispersion systems (emulsion paints). Compared to classic rheology modifiers, such as cellulose ethers, a more Newtonian viscosity profile and greater high-shear thickening is obtained with PAT-ADD RHEOL 99; contributing brush-drag and improved flow and leveling.

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At rest, additional low-shear structure is formed, explaining the excellent anti-settling contribution of PAT-ADD RHEOL 99. The product is primarily used as the sole thickener in low to high PVC emulsion paints. However, the product has shown excellent compatibility with both organic as well as inorganic rheology modifiers.

Dosage & Addition

The optimal amount of PAT-ADD RHEOL 99 is system related, generally between 0.4 and 2.0% PAT-ADD RHEOL 99, on the total weight of paint formulation.

The product is best added during the let-down stage; however, partial addition to the mill base can be considered. The optimum concentration used depends on the individual formulation and conditions and is recommended to be determined experimentally.

End Use Application

PAT-ADD RHEOL 99 is recommended for any emulsion paints for interior and exterior applications based on pure acrylic or copolymer binders.

Shelf life

The product has shelf life of 24 months from the date of manufacturing; packed in unopened original containers as shipped by Patcham when stored in frost free warehouse.

Storage and transportation

Should be stored in a cool dry place.

Safety and Handling

For information on handling, storage and safety please refer to the information from the Material Safety Data Sheet (SDS).

Packing size

Drum: - 200.0 kgs, Can: -25.0 kgs.

Disclaimer:

While every effort is made to provide accurate and complete test results for The PATCHAM ADDITIVES, various data may vary depending upon different raw materials, test procedures and test conditions. The accuracy, reliability, or totality of the results are not guaranteed or warranted in any way. PATCHAM FZC and its representatives disclaim liability of any kind whatsoever, including liability for quality, performance and fitness for a particular purpose arising out of the use, or inability to use the test results.