

PAT-ADD RHEOL100

Product Data Sheet

Rev 01

April 2018



Product Features

PAT-ADD RHEOL 100 is HEUR based liquid rheology modifier for aqueous systems. This product contains low volatile organic components.

PAT-ADD RHEOL 100 provides excellent anti-settling and anti-sagging properties while reducing risk of roller spattering during application.

PAT-ADD RHEOL 100 is supplied in ready for use form and easily incorporated.

Main benefits are:

- Low VOC
- Contributes to excellent flow and leveling
- Excellent shelf stability
- Reduces risk of roller spattering during application
- Liquid, ready-for-use: manufacturing friendly
- Designed for high PVC systems up to gloss emulsion paints and varnishes

Physical Characteristics:

Appearance	: Hazy colorless to pale yellow liquid
Viscosity @ 25°C/77°F	: 8000 - 40000 cP
Specific gravity @ 25°C/77°F	: 1.040 – 1.080
Polarity	: Non-ionic
pH	: 4.0 – 6.0
%Solid 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 100 ensures optimal rheological behavior of dispersion paints. Associative interactions with polymeric binder and micelles with PAT-ADD RHEOL 100 molecules form the network to develop the observed viscosity increase. High thickening efficiency is obtained in polymer dispersion systems (emulsion paints). Compared to classic rheology modifiers, such as cellulose ethers, where a more Newtonian viscosity profile and higher high-shear thickening is obtained, PAT-ADD RHEOL 100 contributes low brush-drag with improved flow and leveling.

At rest, additional low-shear structuring is developed, contributing to excellent anti-settling properties with PAT-ADD RHEOL 100. The product is primarily used as the sole thickener in low to high PVC dispersion paints. However, since PAT-ADD RHEOL 100 is compatible with both organic and inorganic rheology modifiers, blending options are available to optimize his desired rheological behavior.

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Dosage & Addition

The optimal amount of PAT-ADD RHEOL 100 is system related, but generally between 0.4 and 2.0% PAT-ADD RHEOL 100, on the total weight of formulation.

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

End Use Application

PAT-ADD RHEOL 100 provides excellent anti-settling and anti-sagging properties and reduces the risk of roller spattering during application. PAT-ADD RHEOL 100 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; in an opened original container as supplied by Patcham.

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.