PAT-ADD RHEOL 333

Product Data Sheet

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PATCHAM
A step towards sustainable chemistry

Product Features

PAT-ADD RHEOL 333 is a highly efficient rheology modifier for reaching optimal balance as to mid and high shear viscosity build in dispersion paints. It represents the newest technology, within the group of AT (associative thickeners). Different from previous AT, PAT-ADD RHEOL 333 enables to be used as sole AT!

PAT-ADD RHEOL 333 demonstrates excellent compatibility with classical rheological additives to achieve viscosity adjustment of specific shear ranges. A practical application is being combined with low dosage LV grades cellulose thickeners, for reaching upgraded anti-sag properties in high to mid PVC latex paints

PAT-ADD RHEOL 333 is ready to use, VOC-free and easily workable. Paints formulated with PAT-ADD RHEOL 333 excel in showing Newtonian flow, superior applicability, leveling, spatter resistance, low risk for viscosity drop issues on tinting,

Main benefits are:

- One shot: mid to high shear viscosity builder
- Superb compatibility with cellulose thickeners for low shear adjustment
- Enables lowering total rheology modifier dosage in paint formula!
- Contributes to excellent flow and levelling, syneresis control.
- Reduced risk of roller spattering, viscosity drop on tinting
- Liquid, ready-for-use: thus, optimal workability
- pH stability range: 2-12

Physical Characteristics:

Appearance	:	Hazy to clear pale-yellow liquid
Viscosity @ 25°C/77°F	:	3000 - 15000 cP
Specific gravity @ 25°C/77°F	:	1.040 – 1.120
Polarity	:	Non-ionic
pH	:	6.0 – 8.0
%Solid Content (120°C/1hr)	:	50.0± 2.0 %

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

Properties:

PAT-ADD RHEOL 333 ensures optimal rheological properties of dispersion paints. Association interactions onto polymer binder surface as well as interaction between micelles, as formed by dissolved Pat-Add RHEOL 333 molecules, support the formation of a firm network and stable viscosity build up. Consequently, a rheology profile is formed -close to Newtonian- with low degree of pseudoplastic flow, which contributes to optimal brush-drag, opacity and improved flow and levelling.

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Although the product is typically used as the single rheology modifier rheology modifier for low up to high PVC dispersion paints, it may be combined with low dosage low shear thickeners to further boost sag resistance properties.

Dosage& Addition

The optimal amount of PAT-ADD RHEOL 333 to be used is system related, but generally is between 0.4 and 3.0% PAT-ADD RHEOL 333, calculated on the total weight of paint formulation.

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

End Use Application

PAT-ADD RHEOL 333 is used for rheology control of decorative, wood lacquers and industrial waterborne dispersion paints as well as dispersion systems like adhesives.

Shelf life

The product has a shelf life of 24 months from the date of manufacturing in unopened 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.

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