

# PAT-ADD RHEOL117

## Product Data Sheet

Rev 00

May 2022



### Product Features

PAT-ADD RHEOL 117 is a rheology modifier for use in aqueous systems. Being part of the PAT-ADD RHEOL series of associative thickeners, it develops excellent mid to high shear viscosity characteristics. PAT-ADD RHEOL 117 interacts with polymeric binder particles, forming a robust network, characterized by showing a low degree of pseudoplastic flow.

PAT-ADD RHEOL 117 is ready for use, VOC-free and easily workable.

#### **Main benefits are:**

- KU viscosity builder, with robust high shear thickening resistance
- Contributes to excellent flow and levelling.
- No-VOC
- Reduced risk of roller spattering during application
- Liquid, ready-for-use: thus, optimal workability
- Designed to be used in low to high PVC systems.

### Physical Characteristics:

<b>Appearance</b>	: Hazy colorless to pale yellow liquid
<b>Viscosity @ 25°C/77°F</b>	: 3000 - 12000 cP
<b>Specific gravity @ 25°C/77°F</b>	: 1.000 – 1.080
<b>Polarity</b>	: Non-ionic
<b>pH</b>	: 6.0 – 8.0
<b>%Solid Content (120°C/1hr)</b>	: 40.0± 3.0 %

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

### Properties:

PAT-ADD RHEOL 117 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 117 molecules, support the formation of a network and viscosity increase. Consequently, a rheology profile is formed, almost Newtonian with low degree of pseudoplastic flow, which contributes to brush-drag, opacity and improved flow and levelling.

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 shear thickeners to further boost sag properties.

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*A step towards sustainable chemistry*

### Dosage & Addition

The optimal amount of PAT-ADD RHEOL 117 to be used is system related, but generally is between 0,4 and 3,0% PAT-ADD RHEOL 117, 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 117 is used for rheology control of decorative and industrial waterborne dispersion paints as well as other 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.

**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.*