

RHEOPOL® A3

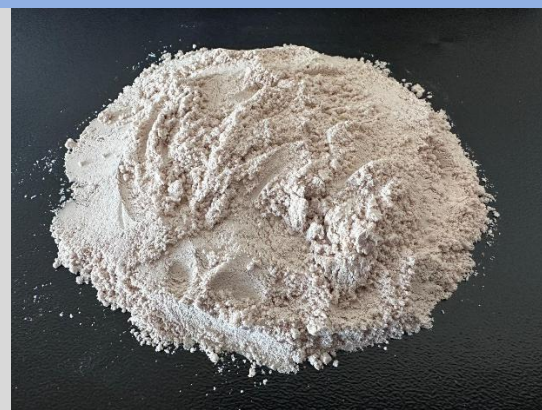
Thixotropic and pseudoplastic agent

DESCRIPTION

RHEOPOL® A3 is a sepiolite-based additive that provides thixotropic and pseudoplastic behavior in water-based systems. It enhances formulation stability, improves application properties, and ensures controlled flow and consistency.

With its high absorption capacity and strong interaction with polymers, RHEOPOL® A3 integrates easily into formulations—either during dispersion/mixing or as a pre-gel. Its ability to create highly homogeneous systems boosts the effectiveness of key formulation components, enabling dose reduction and overall cost savings.

The recommended dosage of RHEOPOL® A3 varies depending on the system, typically ranging from 0.05% to 2%.



PROPERTIES

RHEOPOL® A3 ensures uniform distribution of fillers, solvents, and other components by effectively controlling the flow behavior and consistency of the system. Suspensions formulated with RHEOPOL® A3 remain stable even under high electrolyte conditions, across wide pH ranges, and at elevated temperatures.

RHEOPOL® A3 provides thixotropic and pseudoplastic performance:

- At rest: It builds high consistency, delivering strong suspending power and excellent resistance to settling, sedimentation, or sagging.
- Under shear: Viscosity drops rapidly, facilitating easy manual or mechanical application, spreading, and leveling.

APPLICATIONS

- Water-based paints
- Suspending agent for liquid additives
- Asphalt sheets and emulsions
- Foundry coatings
- Friction materials
- Gaskets
- Sealants and mastics
- Cement and gypsum admixtures

Product Information

Colour	Cream
Appearance	Fine Powder
Packing	Available in 15 kg bags and 700 kg Big Bags
Storage	Dry conditions/protected from humidity

Physical – Chemical Properties¹

Mineralogic Composition	Hydrous magnesium silicate (Sepiolite)
Moisture ²	< 13 %
PH	8.5 ± 0.5
Bulk Density	350 ± 50 g/l
Absorption ³	Water: 220-270 g water /100 g solid Oil : 140-170 g oil / 100 g solid
Brookfield Viscosity (mPa·s) ⁴	15.000 ± 3.000
Particle Size Distribution	D90 : < 38 µm Residue on 63 µm : < 2%

1 Applicable to the whole batch.

2 Measured at the packing stage and can vary according to relative humidity during the transport and storage.

3 Test method ISO 787/5

4 Measured at 5 rpm with 7% of dried substance collected from the batch.