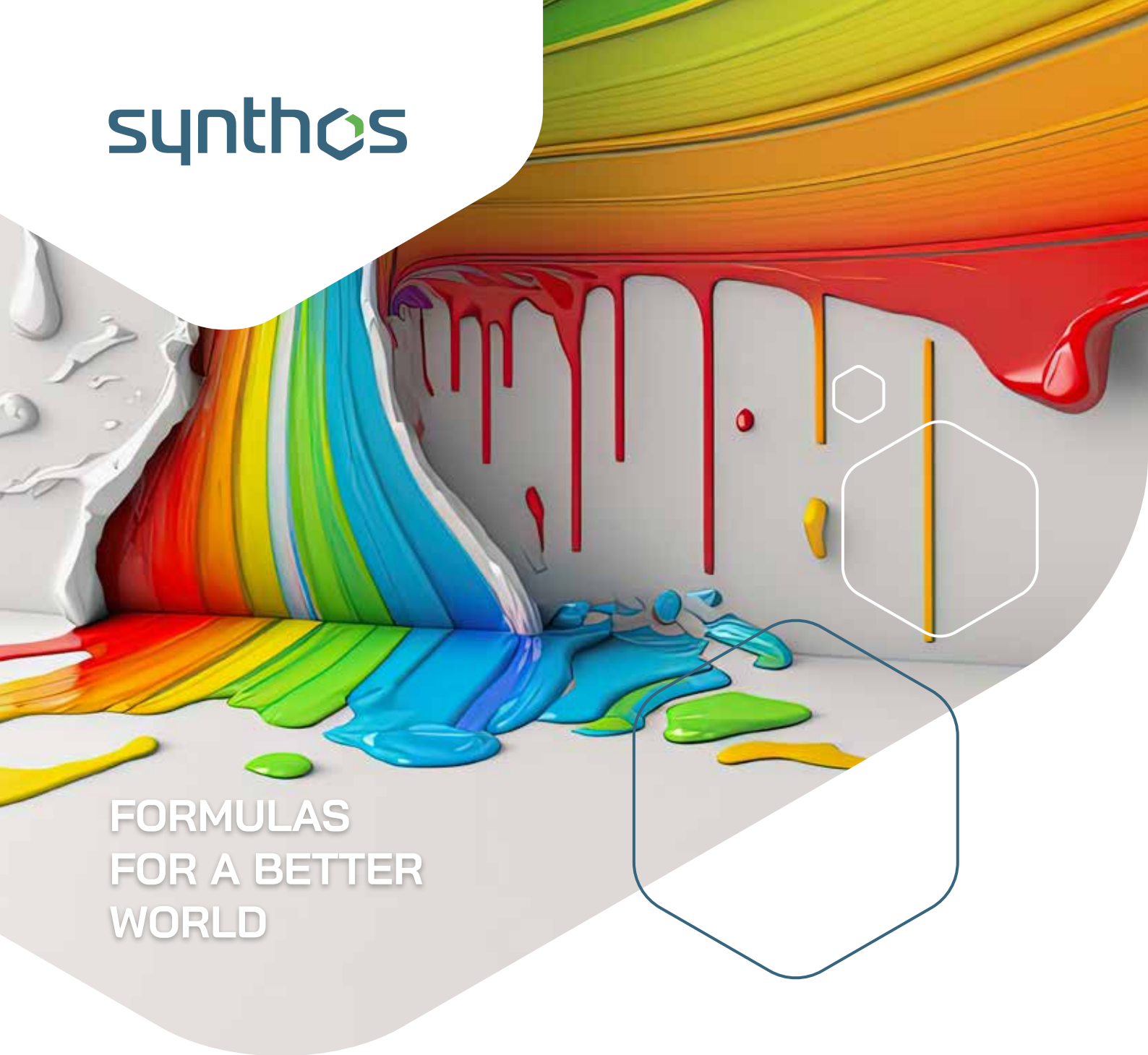




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FORMULAS
FOR A BETTER
WORLD

ATH30
SYNEXIL[®]

ACRYLIC THICKENER


Synexil® ATH 30

Synexil® ATH 30 is acrylic thickener dedicated to modify rheology of water based products in the range of architectural coatings and construction products (such as paints, plasters ect.).

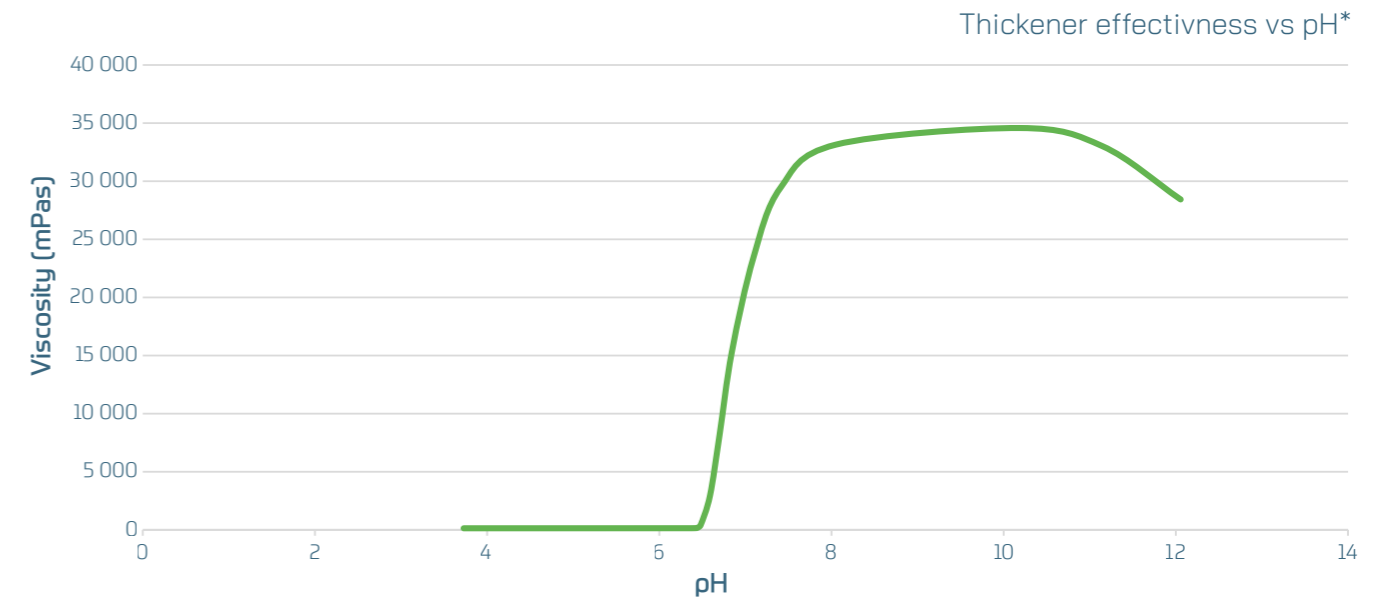
Synexill® ATH 30 is effective associative rheology modifier recommended for use in water based products for coatings and building&construction. It belongs to a group of HASE thickeners, hydrophobically modified acrylic dispersion characterized by associative thickening in aqueous systems. It is effective at low shear rates, giving a pseudoplastic effect in viscosity profile.

Dispersion characteristics:

- free of APEO emulsifiers
- does not contain any solvents
- prevents sedimentation and dripping
- creates pseudoplastic rheology profile (shear-thinning)
- viscosity control by pH
- excellent for spray application

Specification	Application	 APEO-free, solvent-free
	Dispersion features	acrylic copolymer
	pH	2,0 ÷ 3,0
Parameters	Solids content [%]	29 ÷ 32
	Brookfield viscosity [mPa·s]	< 20
	Tg [°C]	ca. 38
	Mean particle size [nm]	100 ÷ 120

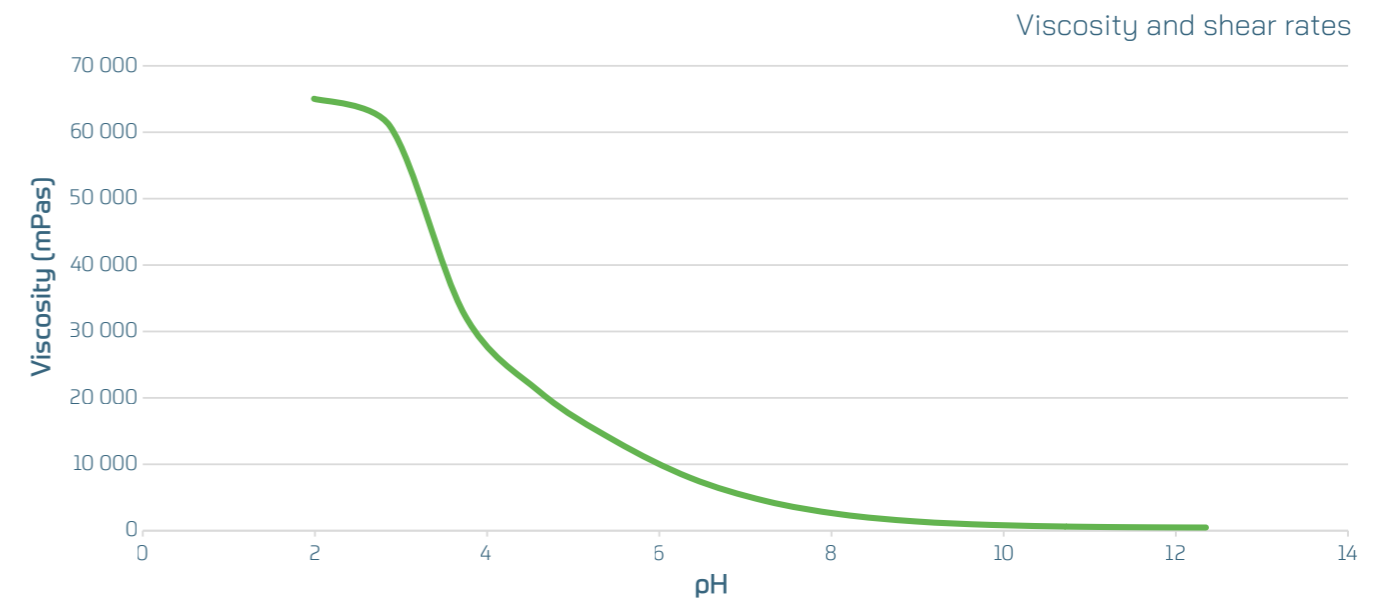
Thickener effectiveness



* 3% aqueous solution of ATH 30 with 20% NaOH aq

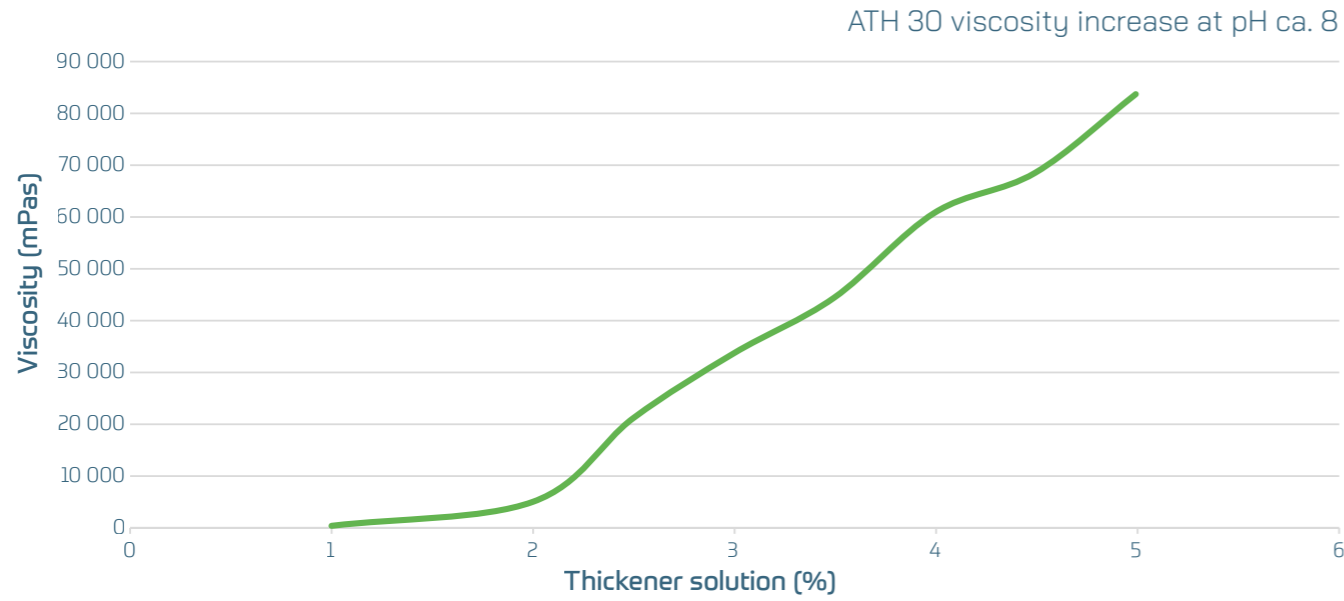
Neutralization (pH change) of alkalisoluble emulsion leads to swelling of the polymer particles and to viscosity increase.

Thickener characteristics



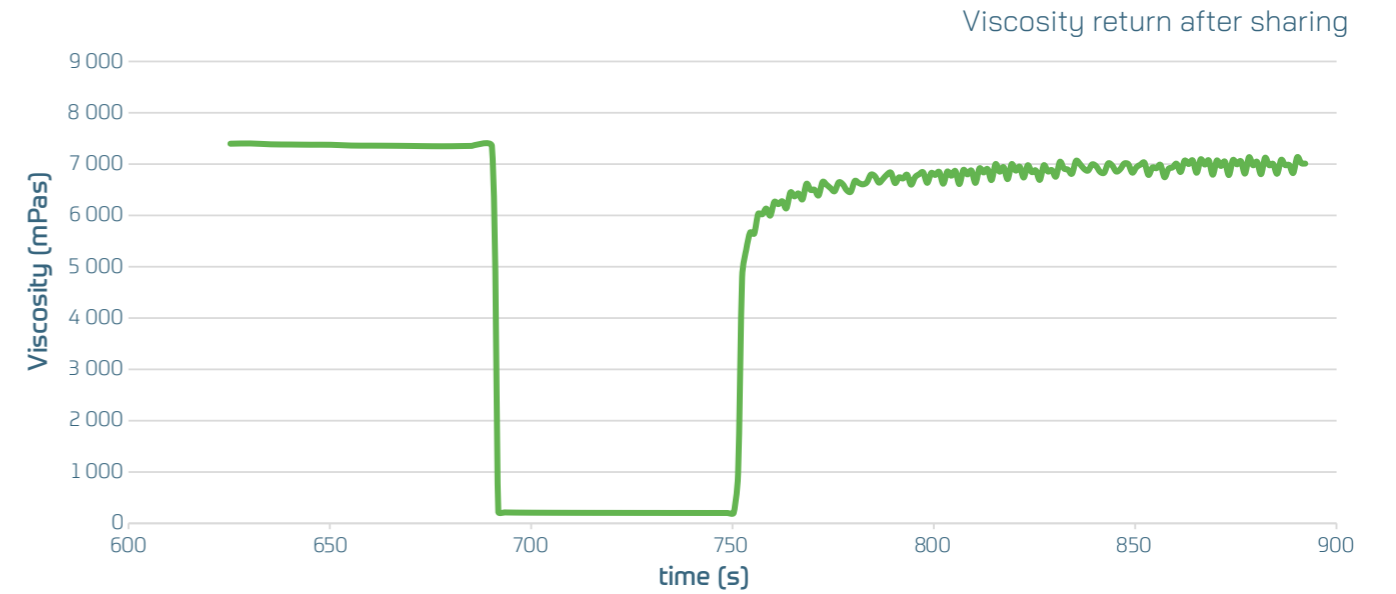
Synexill® 30 ATH is effective at low shear rates. It reflects in application properties such as preventing fillers sedimentation and improving product application.

Thickening efficiency



Product is well dilutable with water and easy to handling. Effective performance can be obtained when used in the formulation in an amount from the range of **0.5 to 2.5%**.

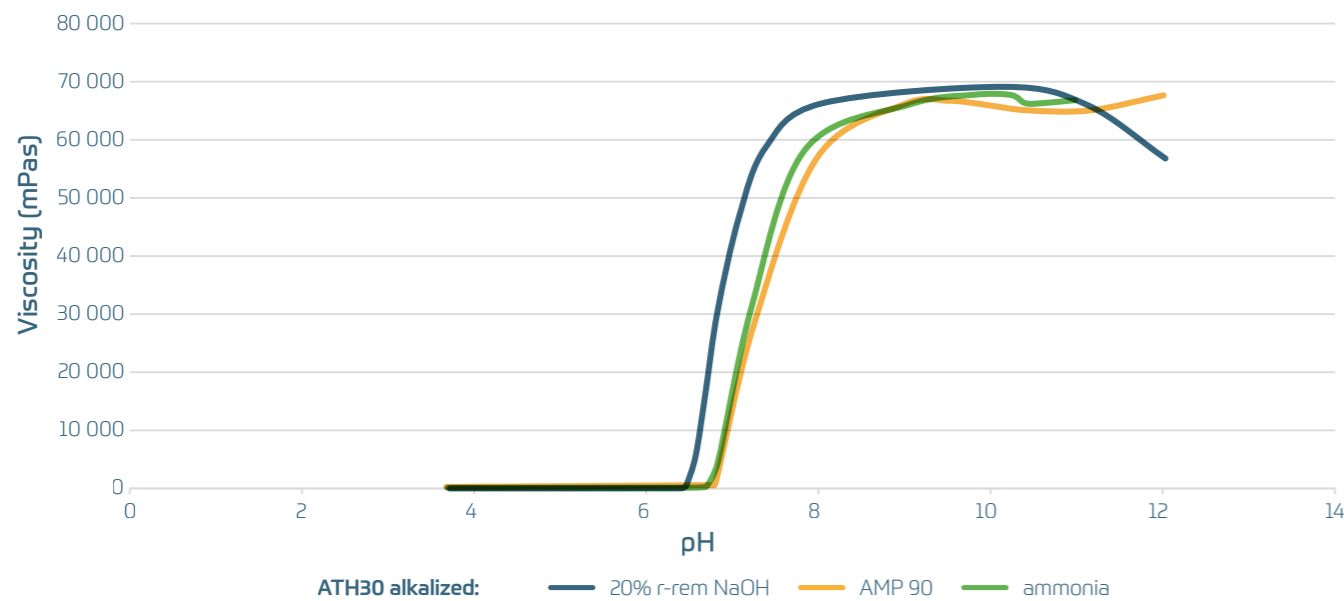
Thixotropic effect



Return of viscosity (90%) is observed after 22 sec.

Shearing causes structure destruction and this is observed as a decrease in viscosity. Then it returns to a more viscous state to attain equilibrium viscosity showing a time-dependent change in viscosity – thixotropy.

Thickener performance



Graphs represents the influence of different alkaline agents on viscosity change for 3% ATH 30 solution. The effectiveness depends on pH.

According to our knowledge Synexill® ATH 30 can be used with commercially available raw materials dedicated for water based formulations. As each associative thickener its performance can be influenced of certain raw materials so it is recommended to perform compatibility and efficiency tests in the course of formulating.



The information given herein is based on trials carried out by SYNTHOS S.A. according to current standards and the present state of our knowledge. They do not guarantee certain properties of the products nor their suitability for a specific purpose. Users are advised to make their own tests to determine the safety and suitability of each such material or combination of materials for their own purpose.

Notes





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