

## AGOCEL AC 6168

### Characterization

Auxiliary for controlling the viscosity and the rheology

#### Chemical Structure

Acrylic copolymer in aqueous dispersion

#### Supplied Form

White liquid

#### pH Value

2.0 – 4.0

#### Ionic character

Anionic

#### Stabilities

AGOCEL AC 6168 is very sensitive to frost. After the impact of temperatures around the freezing point irreversible changes occur.

#### Storage

Store in cool and dry condition in tightly closed original containers. Protect from moisture. We recommend not exceeding a storage time of 12 months. Opened containers have to be reclosed well.

### Properties

AGOCEL AC 6168 has a viscosity increasing effect in liquid coating systems. AGOCEL AC 6168 is ready to use product with low viscosity and it is easy to handle.

AGOCEL AC 6168 is an “ASE” (**A**lkali **S**wellable **E**mulsion) thickener in acidic form which forms a clear solution under alkaline conditions. Product can be used as a special rheology modifier in water based systems. It's good thickening properties ensures efficiency in fine particle sized paints. The spraying and brushability of wet film is improved in medium and high sheen paints.

AGOCEL AC 6168 can be used for sensitive rheology adjustments where the formulations require controlled increase in viscosity.

### Application Technique

#### Fields of application

AGOCEL AC 6168 is applied to water based systems, textured coatings, paints and adhesives.

#### Recommendation for use

AGOCEL AC 6168 is an acrylic emulsion which used in neutral or alkaline medium.

AGOCEL AC 6168 may be introduced as a preneutralized solution in alkaline solution for paints, textured coatings and adhesives; it may also be introduced in its acid form into the formulation. Care must be taken for effective stirring. In this case, dilute the product once or twice to obtain a better homogenization.

AGOCEL AC 6168 can be used both at the beginning of the formulation or in the finished product to adjust the final viscosity. To avoid a substantial decrease of the formulation pH and any risk of flocculation, when adding at the end of formulation, it is recommended firstly to increase pH of product slightly. It is important to have good stirring for homogenization. Optimum rheology depends on the composition of dispersed system. The pH of the system may be adjusted the required level by addition of common alkaline agents like ammonia and sodium hydroxide.

AGOCEL AC 6168 may be used before as well as after the formulating but care must be taken on viscosity variations.

We recommend storage tests when using pigments with high surface area because post thickening of the paint is possible in some cases. The correct balance of rheological properties can be established by tests.

Related to total recipe, the usual application concentration of AGOCEL AC 6168 is:

0.1 – 1.0 % AGOCEL AC 6168

In combination with dispersants and wetting agents etc. we recommend testing the compatibility.

**We reserve the right to modify the product and technical leaflet.**

**Our department for applied technique is always at your service for further information and advice.**

Our technical advice and recommendations given verbally, in writing or by trials are believed to be correct. They are neither binding with regard to possible rights of third parties nor do they exempt you from your task of examining the suitability of our products for the intended use. We cannot accept any responsibility for application and processing methods which are beyond our control.

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