

OPTIGEL-WA

Rheology additive based on a modified activated phyllosilicate to generate thixotropic flow behavior in aqueous coating systems and dispersion-based construction applications.

Product data

Composition

Modified activated phyllosilicate

Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Bulk density: 400-600 kg/m³
 Water content: 13 %
 Delivery form: powder

Storage and transportation

Product shelf life in unopened original packaging: 24 months
 Moisture sensitive. Store dry.

Applications

Coatings industry

Special features and benefits

- Creation of strong thixotropic flow behavior
- Improvement of
 - Storage stability by preventing the settling of solids
 - Processing properties
 - Sag resistance
- Enables greater film thicknesses
- Stable against diluted bases and common diluted acids

Recommended use

OPTIGEL-WA is suitable for a variety of aqueous systems, dispersion-based plasters, highly filled systems, systems with a high pH value, and silicate paints.

Architectural coatings	☒
Floor coatings	☐
Marine and protective coatings	☐
Wood and furniture coatings	☐

☒ Especially recommended ☐ Recommended

Recommended levels

0.3-2.0 % additive (as supplied) based on the total formulation, depending on the properties of the formulation to be achieved.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

OPTIGEL-WA should be added to the millbase along with the pigments and fillers. This ensures optimal activation, dispersion, and development of the desired thixotropic flow behavior. If post-addition is necessary, a pregel can be prepared prior to incorporation. Preparing a pregel helps ensure proper swelling and avoids insufficient activation or formation of lumps when the product is added later in the process.

Construction chemicals**Special features and benefits**

In fluid systems:

- Prevention of
 - Aggregate settling
 - Syneresis

In high-solid construction systems:

- Improvement of
 - Processability
 - Sag resistance

Recommended use

OPTIGEL-WA is suitable for dispersion-based plaster or adhesive systems.

Tile adhesives	☒
Putties	☒

☒ Especially recommended ☐ Recommended

Recommended levels

0.2-1.0 % additive (as supplied) based on the total formulation, depending on the properties of the formulation to be achieved.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

OPTIGEL-WA is hydrophilic and easy to incorporate in water. To ensure optimal distribution, effectiveness, and reproducibility, the additive must be added to water slowly whilst stirring, and pre-dispersed at high shear forces for at least 20 minutes. OPTIGEL-WA should be fully hydrated before the rest of the water and the remaining formulation components can be added to the dispersion.

Adhesives and sealants

Special features and benefits

- Creation of thixotropic flow behavior
- Improvement of
 - Storage stability by preventing the settling of solids
 - Processing properties
 - Sag resistance
 - Slip behavior
 - Ridge formation
- Stable against diluted bases and common diluted acids

Recommended use

OPTIGEL-WA is suitable for a variety of aqueous systems, such as flooring, wood, and dispersion adhesives, and acrylate sealants. It is suitable for pH-neutral, acidic, and basic adhesives and sealants.

Recommended levels

0.5-2.0 % additive (as supplied) based on the total formulation, depending on the properties of the formulation to be achieved.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

OPTIGEL-WA should be added to the formulation together with fillers. This ensures optimal activation, dispersion, and development of the desired thixotropic flow behavior. If post-addition is necessary, a pregel can be prepared prior to incorporation. Preparing a pregel helps ensure proper swelling and avoids insufficient activation or formation of lumps when the product is added later in the process.



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