

OPTIGEL-W 724

Rheology additive based on a modified activated phyllosilicate to generate thixotropic flow behavior in aqueous systems.

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: 550-850 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
 - In-can viscosity
- Enables greater film thicknesses
- Stable against diluted bases and common diluted acids

Recommended use

OPTIGEL-W 724 is suitable for a variety of aqueous coating systems.

Architectural coatings	☒
Marine and protective coatings	☐
Wood and furniture coatings	☐
Floor 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-W 724 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.

Adhesives and sealants**Special features and benefits**

- Development of a targeted rheological property profile for aqueous and highly filled adhesive and sealant systems
- 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-W 724 is particularly suitable for aqueous, highly filled adhesive and sealant formulations based on acrylate, styrene-acrylate, vinyl acetate-ethylene, and vinylacetate.

Recommended levels

0.2-3.0 % 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-W 724 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.



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