RHEOBYK-7405

Aromatic- and tin-free rheology additive for solvent-free and solvent-borne systems to enhance the rheological properties in conjunction with organophilic phyllosilicates and hydrophilic fumed silica.

Product Data

Composition
Solution of polyhydroxycarboxylic acid amides

Aromatic-free
Tin-free

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

Active substance:	52 %
Density (20 °C):	1.00 g/ml
Solvents:	Polypropylene glycol 600
Flash point:	> 100 °C

Food Contact Legal Status
For the current food contact legal status, please contact our product safety department or visit www.byk.com for further information.

Storage and Transportation
Separation or turbidity may occur. Mix well before use. Product efficiency is not influenced.

Applications

Coatings Industry

Special Features and Benefits
RHEOBYK-7405 is used as a thixotropy-enhancing additive in solvent-free and solvent-borne systems which contain organophilic phyllosilicates or pyrogenic fumed silica. The additive reinforces the three-dimensional network structures of the phyllosilicates or fumed silica through additional bridges, thereby enhancing the thixotropy. For this reason, it achieves sufficiently high anti-sagging properties with improved leveling, even with low quantities of phyllosilicates or fumed silica. A considerable thixotropy enhancement is noticeable both in clear coats as well as in pigmented systems.

Recommended Use

Architectural coatings	■
Floor coatings	■
General industrial coatings	■
Wood and furniture coatings	□
Protective coatings	□

■ especially recommended □ recommended

Recommended Levels
10-40 % additive (as supplied) based on the organophilic phyllosilicates or pyrogenic fumed silica.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions
RHEOBYK-7405 can be added to the formulation before or after dispersion of the organophilic phyllosilicates or pyrogenic fumed silica whilst stirring.

Special Note
RHEOBYK-7405 is effective only in combination with organophilic phyllosilicates and hydrophilic types of fumed silica.

Adhesives & Sealants

Special Features and Benefits
RHEOBYK-7405 is used as a thixotropic-enhancing additive in solvent-free and solvent-borne epoxy resin and acrylate resin systems which contain organophilic phyllosilicates or pyrogenic fumed silica. The additive reinforces the three-dimensional network structures of the phyllosilicates or fumed silica through additional bridges, thereby increasing the thixotropy of the system. For this reason, it achieves high anti-sagging properties with improved leveling, even with low quantities of phyllosilicates or fumed silica. RHEOBYK-7405 enables hydrophilic fumed silica or phyllosilicates to be used alone in 2-component epoxy systems.

Recommended Levels
10-40 % additive (as supplied) based on the organophilic phyllosilicates or pyrogenic fumed silica.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions
RHEOBYK-7405 can be added to the formulation before or after the incorporation of the organophilic phyllosilicates or pyrogenic fumed silica whilst stirring.

Special Note
RHEOBYK-7405 is effective only in combination with organophilic phyllosilicates and hydrophilic types of fumed silica.

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