

# OPTIBENT-987

Powdered rheology additive based on an activated, natural phyllosilicate for aqueous, mineral-based dry mix mortars and paste-like binder systems.

## Product Data

### Composition

Activated, natural phyllosilicate

### Typical Properties

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

pH value (2 %): approx. 9-11

Bulk density: 500-700 kg/m<sup>3</sup>

Moisture content: max. 13 %

Supplied as: free-flowing, gray-white powder

### Food Contact Legal Status

For the current food contact legal status, please contact our product safety department or visit [www.byk.com](http://www.byk.com) for further information.

### Storage and Transportation

The product is slightly hygroscopic and should be transported and stored dry in the unopened original container at temperatures between 0 °C and 30 °C.

## Applications

### Construction industry

#### Special Features and Benefits

OPTIBENT-987 produces a thixotropic flow behavior. It improves the anti-sagging properties in pre-mix mortars and their ease of processing without impairing the cement hydration. In aqueous paste-like binder systems, OPTIBENT-987 increases the storage stability and reduces the settling tendency during application which enables thick layers.

OPTIBENT-987 also displays consistent rheological properties even at different temperature conditions.

**Recommended Use**

OPTIBENT-987 is suitable for a variety of aqueous construction systems in the pH neutral to alkaline range.

Mineral based top coats	<input type="checkbox"/>
Jointing compounds	<input checked="" type="checkbox"/>
Self-leveling underlayments and self-leveling screeds	<input checked="" type="checkbox"/>
Putties	<input checked="" type="checkbox"/>
Dispersion-based systems	<input checked="" type="checkbox"/>

☒ especially recommended    ☐ recommended

**Recommended Levels**

0.1-2.0 % additive (as supplied) based upon the total formulation, depending on the properties of the formulation to be achieved.

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

**Incorporation and Processing Instructions**

OPTIBENT-987 is hydrophilic and can be added as supplied to the dry mix mortar formulation.

It is also possible to incorporate the additive as a dispersion (5-7 % solids content) and is especially recommended for paste-like systems. OPTIBENT-987 should be added to water slowly whilst stirring and pre-dispersed at high shear forces for at least 20 minutes. All other system components can then be added.



Additive Guide



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This issue replaces all previous versions – Printed in Germany