

# RHEOBYK-T 1000 VF

VOC-free associative thickener (HEUR) for aqueous systems to generate a Newtonian flow behavior.

## Product Data

### Composition

Solution of a polyurethane

VOC-free  
(**< 1500 ppm**)

### Typical Properties

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

Active substance: 22.5 %  
 Density (20 °C): 1.04 g/ml  
 Solvents: Water  
 pH value: 8 ± 1

### 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

Mix well before use. Transport and store in a dry place, in an unopened original container, at temperatures between 5 °C and 35 °C.

## Applications

### Coatings Industry

#### Special Features and Benefits

RHEOBYK-T 1000 VF increases the viscosity in the high shear range with an extremely low impact in the low shear range. It improves processability, leveling, and storage stability. It reduces spattering during application. In addition, greater layer thicknesses can be achieved along with an excellent balance between the flow properties and leveling. The additive is liquid and therefore easy to handle. It is not necessary to adjust the pH value or control the temperature during incorporation.

#### Recommended Use

RHEOBYK-T 1000 VF is preferably used in emulsion paints and coatings that are based on acrylate, styrene acrylate and vinyl acetate copolymer binders as well as in PU and alkyd emulsions.

Architectural coatings	■
Wood and furniture coatings	■
Paper coatings	■

■ especially recommended    □ recommended

## Recommended Levels

1-4 % 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

Addition under stirring ensures optimum distribution and the best possible effectiveness and reproducibility in applications. RHEOBYK-T 1000 VF is suitable for adding to the millbase as well as to the letdown product, or as a post additive to retroactively adjust the rheological properties.

## Adhesives and sealants

### Special Features and Benefits

RHEOBYK-T 1000 VF increases the viscosity in the high shear range with an extremely low impact in the low shear range. It improves processability, leveling, and storage stability. It reduces spattering during application. In addition, greater layer thicknesses can be achieved along with an excellent balance between flow properties and stability. The additive is liquid and therefore easy to handle. It is not necessary to adjust the pH value or control the temperature during incorporation.

### Recommended Use

RHEOBYK-T 1000 VF is preferably used in dispersion adhesives that are based on acrylate binders, carboxylated styrene-butadiene latex and vinyl acetate copolymer binders, as well as in PU and vinyl acetate homopolymers.

Floor adhesives	<input checked="" type="checkbox"/>
Wood and packaging adhesives	<input checked="" type="checkbox"/>
PSA systems	<input checked="" type="checkbox"/>

especially recommended     recommended

## Recommended Levels

1-4 % 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

Addition under stirring ensures optimum distribution and the best possible effectiveness and reproducibility in applications. RHEOBYK-T 1000 VF can be added directly to the formulation or as a post additive for the retroactive adjustment of the rheological properties.

## Paper Coatings

### Special Features and Benefits

In paper coatings, RHEOBYK-T 1000 VF generates a considerable Newtonian flow behavior, thus very efficiently increasing the viscosity in the high shear range. This enables the adjustment of a flat rheology profile across a broad shear range.

### Recommended Use

The additive is compatible with all paper coating systems and can be used in association with all the application techniques. It is particularly suitable for use in curtain coating procedures in order to stabilize the flow curtain when it meets the coating material. It prevents the introduction of air and the tearing of the flow curtain, which in turn enables the coating speed to be increased.

### Recommended Levels

0.5-3 % 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

The additive can be incorporated to adjust viscosity after production of the coating system with low to medium shear forces (post-addition).

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Data Sheet  
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Additive Guide



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