

## RHEOBYK-7503

Organic rheology additive in powder form for increasing the stability of single component, silane-modified prepolymer systems, epoxy systems, and alkyd-based coating systems.

Only available in North America and Europe.

### Product Data

#### Composition

Micronized, modified, rheologically effective amide

#### Typical Properties

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

Bulk density:	200 kg/m <sup>3</sup>
Particle size D <sub>90</sub> :	< 20 µm
Particle size D <sub>50</sub> :	< 14 µm
Color:	white

#### Storage and Transportation

Should be stored dry.

### Applications

#### Adhesives & Sealants

##### Special Features and Benefits

RHEOBYK-7503 is a highly effective rheology additive in powder form for use in single component, silane-modified prepolymer systems and epoxy systems. The additive is heat activated and lends systems high sag resistance while demonstrating excellent application properties.

##### Recommended Levels

1.5-7 % additive (as supplied) based on the total formulation.

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

##### Incorporation and Processing Instructions


For use in single component, silane-modified prepolymer adhesives and sealants, RHEOBYK-7503 is added to the binder, homogenized, and activated for 30 minutes by temperatures of 60-80 °C. Usually a dissolver with a planetary mixer is used for the incorporation. Other formulation components such as plasticizers and adhesion promoters, etc. are then incorporated afterward.

## Coatings Industry

## Special Features and Benefits

RHEOBYK-7503 is compatible with a wide range of solvents and can be used in different coating systems, such as epoxy, polyurethane, and alkyd systems, with simple activation at a low temperature. Adding the additive results in a strong shear-thinning rheology profile, very high sag resistance, and very strong anti-settling properties. The anti-corrosive properties remain unaffected.

## Recommended Use

Marine and Protective Coatings	
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 especially recommended     recommended

## Recommended Levels

0.2-2 % additive (as supplied) based on the total formulation.

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

## Incorporation and Processing Instructions

RHEOBYK-7503 should be added at the start of the dispersion process before the pigments and fillers. It should preferably be pre-dispersed in a solvent/binder for approximately 5 minutes. For optimum incorporation into the coating system, the process temperature must be monitored.

Full effectivity is achieved at 45-65 °C. Within this activation temperature range and with incorporation at high shear, RHEOBYK-7503 produces a strong and immediate rheological effect.

## Special Note

The rheological behavior and swelling properties of RHEOBYK-7503 depend on the temperature applied or solvents used.



Additive Guide



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