

PURABYK-R 5531

Liquid rheology additive to create a thixotropic flow behavior in aqueous and polar solvent-based systems. Particularly recommended for generating anti-settling properties and vertical cling on surfaces in detergents, cleaning and care products.

Product data

Composition

Solution of modified urea

Typical properties

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

Density:	1.18 g/cm ³
Active substance:	42 %
Solvent:	amide ether
Flash point:	126 °C

Storage and transportation

Product is hygroscopic. Store dry. Minor turbidity of the material that occurs during storage has no influence on the rheological effectiveness. If handled and stored properly, the storage stability specified upon delivery applies in the unopened container.

Applications

Home Care and I&I

Special features and benefits

After being incorporated into the system, the additive generates a three-dimensional network structure. The resulting thixotropic flow behavior is optimally suited to preventing particles (e.g. encapsulated fragrances) from settling without affecting the residual emptying of the container. Cleaning products with PURABYK-R 5531 are easy to use and can be applied by spraying. The use of the additive improves adhesion to vertical surfaces, which enhances the cleaning action as a result of the longer exposure time.

The additive is liquid and therefore easy to handle. It is not necessary to specifically adjust the pH value or control the temperature during incorporation.

PURABYK-R 5531 is stable to acids and bases in a pH range of 0–13. The electrolyte resistance and compatibility with surfactants, including cationic ones, are excellent. Detergents and cleaning products retain their transparency.

Recommended use

PURABYK-R 5531 is used as a rheology additive to improve the run-off and settling properties in aqueous and polar solvent based detergents, cleaning and care products.

Acidic household cleaners	■
Acidic toilet cleaners	■
Glass and window cleaners	■
Liquid detergents	■
Fabric softeners	■
All-purpose cleaner	■
Hand dishwash detergents	■

■ especially 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. The optimum dosage should be determined by application-related test series.

Incorporation and processing instructions

Addition under controlled stirring ensures optimum distribution and the best possible effectiveness and reproducibility in applications. It is not necessary to specifically control the temperature or adjust the pH value. The additive is also suitable for adjusting the viscosity afterwards by post addition. If an inhomogeneous appearance occurs, the use of common water-miscible solvents (e.g. alcohols, ketones, glycols, esters) will bring about an improvement.



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