

RHEOBYK-L 1400 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: 20 %
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 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

As a result of the Newtonian flow behavior, RHEOBYK-L 1400 VF has only a negligible impact on the low shear range and improves or increases the brushability. The additive also reduces spattering during application. 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. When combined with rheology additives which are effective in the low shear range, such as the RHEOBYK-H series, it enables an optimum processability.

Recommended Use

RHEOBYK-L 1400 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 and epoxy dispersions.

Architectural coatings	■
Wood and furniture coatings	■

■ especially recommended □ recommended

Recommended Levels

1.0-3 % 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

Addition under stirring ensures optimum distribution and the best possible effectiveness and reproducibility in applications. RHEOBYK-L 1400 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.

Paper Coatings

Special Features and Benefits

In paper coatings, RHEOBYK-L 1400 VF develops 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 application techniques.

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).



Additive Guide



BYK-Chemie GmbH
P.O. Box 10 02 45
46462 Wesel
Germany
Tel +49 281 670-0
Fax +49 281 65735

info@byk.com
www.byk.com

ACTAL®, ADD-MAX®, ADD-VANCE®, ADJUST®, ADVITROL®, ANTI-TERRA®, AQUACER®, AQUAMAT®, AQUATIX®, BENTOLITE®, BYK®, BYK®-DYNWET®, BYK®-SILCLEAN®, BYKANOL®, BYKETOL®, BYKJET®, BYKO2BLOCK®, BYKOPLAST®, BYKUMEN®, CARBOBYK®, CERACOL®, CERAFAX®, CERAFLOUR®, CERAMAT®, CERATIX®, CLAYTONE®, CLOISITE®, DISPERBYK®, DISPERPLAST®, FULACOLOR®, FULCAT®, GARAMITE®, GELWHITE®, HORDAMER®, LACTIMON®, LAPONITE®, MINERAL COLLOID®, MINERPOL®, NANOBYPK®, OPTIBENT®, OPTIFLO®, OPTIGEL®, PAPERBYK®, PERMONT®, POLYAD®, PRIEX®, PURE THIX®, RECYCLOBLEND®, RECYCLOSORB®, RECYCLOSTAB®, RHEOCIN®, RHEOTIX®, SCONA®, SILBYK®, TIXOGEL®, VISCOBYK® and Y 25® are registered trademarks of the BYK group.

The information herein is based on our present knowledge and experience. The information merely describes the properties of our products but no guarantee of properties in the legal sense shall be implied. We recommend testing our products as to their suitability for your envisaged purpose prior to use. No warranties of any kind, either express or implied, including warranties of merchantability or fitness for a particular purpose, are made regarding any products mentioned herein and data or information set forth, or that such products, data or information may be used without infringing intellectual property rights of third parties. We reserve the right to make any changes according to technological progress or further developments.