

OPTIFLO H400

Associative Thickener

Product Data

Special Features and Benefits

OPTIFLO H400 is a non-ionic, hydrophobe modified polymer designed especially for a slightly pseudoplastic thickening of dispersion paints and aqueous lacquer systems. OPTIFLO H400 is used in various dispersions such as styrene acrylates, pure acrylates, polyvinyl acetates, and others, as well as in alkyd and epoxy emulsions; in emulsions, an antisagging effect is provided in addition to thickening.

OPTIFLO H400 is transparent, colourless and odourless. The use of OPTIFLO H400

- provides higher layer thicknesses in one pass
- reduces spatter
- improves the water resistance against the formation of bubbles
- avoids syneresis
- prevents sedimentation
- gives excellent flow and levelling

Typical Properties

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

solids [%]:	20.0 ± 1
viscosity [mPas] (Brookfield RVT DVII, Sp 5, 20 rpm, 23 °C):	2.000-10.000
pH-value:	8.0 ± 1
appearance:	transparent, colourless liquid
solvent (butyldiglykol) [%]:	approx. 16

Incorporation and Processing Instructions

We recommend the direct incorporation of undiluted OPTIFLO H400 into the paint. If required, OPTIFLO H400 can be diluted with a water/butyldiglykol mixture which leads to a lower processing viscosity.

Hints for Application

Depending on the desired rheological properties and the formulation of the paint, 0.2-0.8 % OPTIFLO H400 is added as supplied. For painting systems with very low solids content and/or dispersion content, a higher quantity may be added; formulations for semi-gloss and brilliant paint systems containing a high share of binding agents do generally require only the recommended minimum quantity of OPTIFLO H400. A combination with cellulose-based thickeners is possible, especially for improving the sag behaviour.

In very few cases, wetting agents used for improving the acceptancy of tinting pastes in the system were observed to have an influence on the thickening effect of OPTIFLO H400. For this reason, these wetting agents should be tested accordingly.

Storage and Transportation

12 months. OPTIFLO H400 should not be stored below 5 °C.

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