RHEOBYK-7600

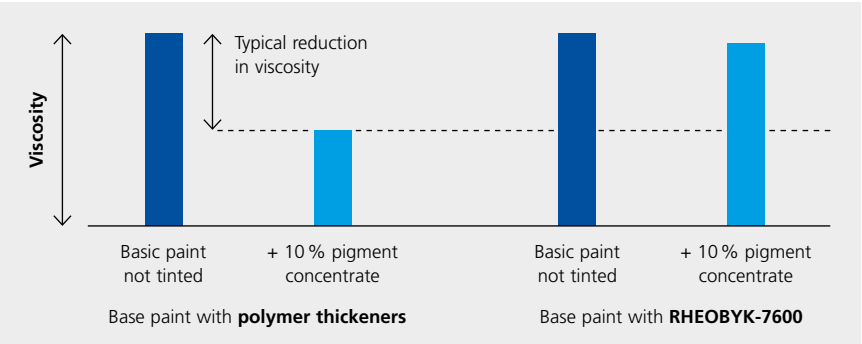
VOC-, APEO- and Tin-free Associative Thickener (HEUR) for Aqueous Systems, to Generate a Highly Pseudoplastic Flow Behavior

The addition of pigment concentrates in a basic paint to achieve the desired color can cause problems with regard to rheological behavior. Any co-solvents, imported water or wetting and dispersing additives contained in the pigment concentrates can bring about a significant reduction in the viscosity of the finished paint. To avoid this effect, with RHEOBYK-7600, BYK is offering a unique associative thickener based on a new technology.

RHEOBYK-7600 leads to a considerable increase in the viscosity in the low shear range, stabilizes the viscosity when the colorant is added, and improves the color paste acceptance.

The rheological properties are comparable with those of RHEOBYK-TVS HEAT technology. The new additive also offers a significantly better leveling properties. As well as being VOC-, APEO-, and tin-free, RHEOBYK-7600 is also liquid, which facilitates incorporation and handling. Due to its composition, it is highly compatible in many aqueous systems. The sagging tendency and the storage stability are improved. It is not necessary to adjust the pH value or control the temperature during incorporation. Combining with rheology additives, which are effective in the high shear range, optimizes processability.

RHEOBYK-7600 – Theoretical Consideration of the Viscosity Stability After Tinting



Benefits

- Very good viscosity stability after tinting
- Balanced ratio of anti-sagging and leveling – improved leveling properties
- Improved colorant acceptance
- Improved anti-settling and anti-sagging properties
- Good compatibility with different systems
- Easy handling and incorporation due to the viscosity of the additive
- VOC-, APEO- and tin-free

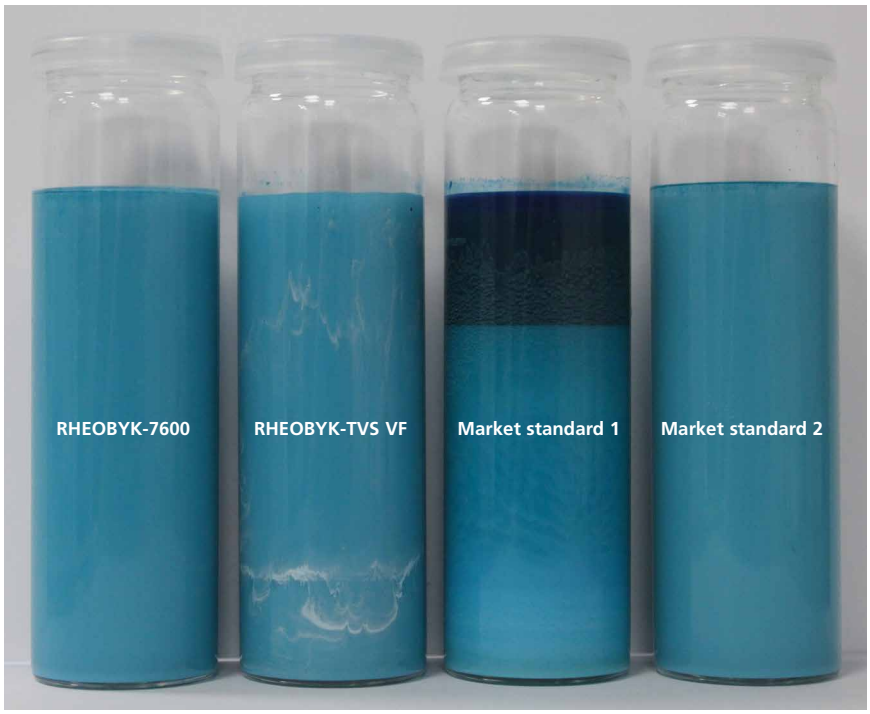
Applications

- Architectural coatings
- General industrial coatings
- Protective coatings
- Wood and furniture coatings

Technical Properties

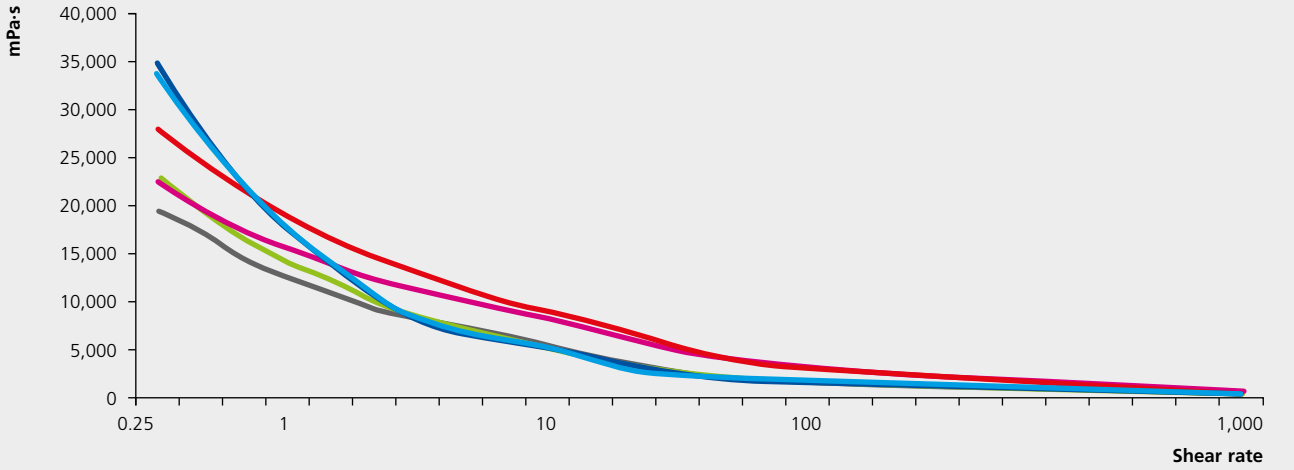
- Active substance: 15 %
- Density (20 °C): 1.05 g/ml
- Solvents: Water
- Flash point: > 100 °C

RHEOBYK-7600 – Improvement in the Color Paste Acceptance After Storage



Test system: Pure acrylic, PVC 19 %
Dosage: 0.1 % active substance based on the total formulation
Tinting: aqueous, blue pigment concentrate 97:3
Storage: 14 days at 50 °C

RHEOBYK-7600 – Very Good Viscosity Stability After Tinting



RHEOBYK-7600 untinted
RHEOBYK-7600 tinted
RHEOBYK-TVS VF untinted
RHEOBYK-TVS VF tinted
Market standard untinted
Market standard tinted

Test system: Pure acrylate, PVC 19 %
Dosage: 0.1 % active substance based on the total formulation
Tinting: aqueous, blue pigment concentrate 97:3

BYK Additive Guide
Available on the App Store
Google play

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

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