Rheovis®
HS 1152 / HS 1162

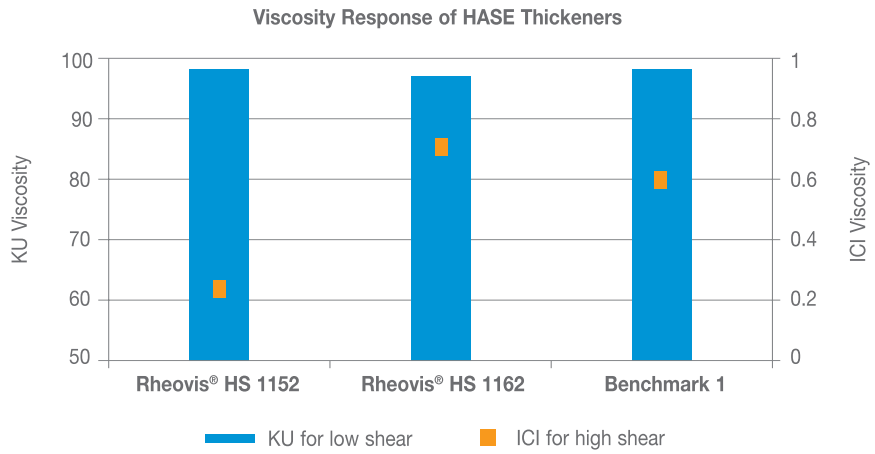
BASF
We create chemistry

Acrylic rheology modifiers for boosting low-shear viscosity

Rheovis® HS 1152 and Rheovis® HS 1162 are hydrophobically modified alkali swellable emulsions (HASE) and, upon neutralization with a base, enhance low-shear rheology in water based coating systems. This pseudo-plastic rheology response gives paint formulators a cost effective way to improve anti-settling and sag resistance of the coating.

Comparison in a zero VOC semi-gloss white architectural paint

The graph below shows variable high shear response (ICI Viscosity) when paints are formulated to the same KU @ ~ 98. The data points to the superior ICI efficiency of Rheovis® HS 1162 while Rheovis® HS 1152 is useful when a formulator needs her KU builder to have minimal impact on ICI.



BASF's HASE rheology modifiers give the formulator the ability to tailor the coating viscosity profile to meet their specific needs. Rheovis® HS 1152 should be considered for enhancing low-shear viscosity when limited impact on high-shear viscosity is desired. In coatings where both high shear and low shear viscosity enhancements are required, Rheovis® HS 1162 is an excellent choice.

Rheovis® HS 1152 / HS 1162: Characteristic Values

Property	Rheovis® HS 1152	Rheovis® HS 1162
Solids content	~ 40%	~ 35%
pH value	~ 3.2	~ 3.5
Brookfield viscosity	~ 5 mPa·s	~ 5 mPa·s
Density	1.05 g/cm³	1.04 g/cm³

Performance Highlights

- Impart cost effective pseudo-plasticity
- Improve anti-settling and sag resistance
- Compatible with a variety of paint systems
- Good viscosity stability after tinting
- Easy handling: low viscosity

Sustainability Highlights

- Low VOC content
- APEO-free
- Heavy-metals-free (e.g. organic tin compounds)
- Solvent-free
- Very efficient at low dosage

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