

Rheovis® PU 1331

(Old: DSX® 3100)



We create chemistry

Highly efficient high-shear (ICI) viscosity builder

Rheovis® PU 1331 is a VOC-free, odor-free, associative thickener that shows high efficiency in building high ICI viscosity while also improving Brookfield viscosity response, allowing for reduction of cellulose ether. It is suitable for all types of aqueous paints and coatings: premium flat & eggshell, semi-gloss and gloss coatings.

Rheovis® PU 1331: Summary of benefits

	ICI efficiency	Brookfield efficiency	Gloss	Color acceptance	Sag / Leveling	Scrub resistance / QUV
Styrene acrylate matt interior paint	+20%	+40%*	-	→	→	Scrub ↑↑↑
VAC/Ethylene silk interior paint	→	+68%*	↑↑↑	↑↑↑	→	-
Pure acrylate glossy paint	+50%	+50%*	↑↑↑	→	Sag Leveling	-
Alkyd emulsion high gloss paint	+27%	+60%*	→	↑↑↑	Sag ↑↑↑ Leveling →	QUV ↑↑↑
Legend: ↑↑↑ = superior ↑ = better → = similar						

Rheovis® PU 1331 shows high thickening efficiency, excellent gloss and colour acceptance and allows for partial reductions of cellulose ether

* vs. formulations based on HS-HEUR 2 and cellulose ether

Rheovis® PU 1331: Characteristic Values

Characteristic	Value
Appearance	Opaque viscous liquid
Viscosity	~ 4000 mPa.s
Solids (25°C)	~ 18%
Density (25°C)	~ 1.03 g/ml

¹ VOC content < 0.1% acc. to EU 2004/42 (b.p. >250°C)

Performance Highlights

- Excellent high shear viscosity builder with good low shear viscosity response
- Highly efficient (typically 20% to 50% higher efficiency) compared to market standard
- Allows for reduction of cellulose ether amount
- Excellent gloss and color acceptance
- Easy handling and easy incorporation without high shear mixing
- Universality (architectural & industrial applications)

Sustainability Highlights

- VOC-free acc. to EU 2004/42¹ & US-EPA Method 24
- APEO-free
- Heavy-metals-free (e.g. organic tin compounds)
- Solvent-free
- Typically 20% up to 50% higher efficiency
- No hazardous labeling



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