

# Rheovis® PU 1291

(Old: DSX® 3801)



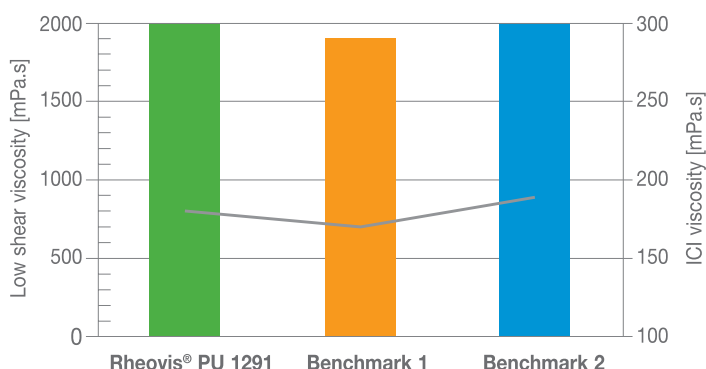
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## New, highly efficient, VOC-free, mid-shear rheology modifier

Rheovis® PU 1291 is a VOC-free associative thickener that shows high efficiency in ICI viscosity at lower dosage. This well-balanced mid-shear rheology modifier allows for improved hiding power and excellent film appearance. It is suitable for all types of aqueous paints and coatings: premium flat & eggshell, semi-gloss and gloss coatings.

### High gloss paint based on pure acryl

Low shear viscosity and high shear viscosity vs. dosage of rheology modifier. Dosage (as-is on paint) adjusted to achieve ~ 2000 mPa.s low shear viscosity



| Dosage                      | 1.06% | 1.22% | 2.78% |
|-----------------------------|-------|-------|-------|
| Low shear viscosity (1 1/s) | 2000  | 1900  | 2000  |
| ICI Viscosity (10000 1/s)   | 180   | 170   | 189   |

Rheovis® PU 1291 shows similar performance to solvent containing Benchmark 1 at 13% lower dosage. To reach the same level of low shear viscosity, more than double amount of Benchmark 2 is needed.

### Rheovis® PU 1291: Characteristic Values

| Characteristic | Value                    |
|----------------|--------------------------|
| Appearance     | Yellowish liquid         |
| Viscosity      | ~ 2700 mPa.s             |
| Solids         | ~ 45%                    |
| Density        | ~ 1.04 g/cm <sup>3</sup> |

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

### Performance Highlights

- Well-balanced mid-shear thickener with improved ICI build at low dosage
- Improved viscosity-drop-on-tinting
- Easy handling due to low product viscosity, pumpable
- Good scrub and chemical resistance
- Universality (architectural & industrial applications)

### Sustainability Highlights

- VOC-free acc. to EU 2004/42<sup>1</sup> & US-EPA Method 24
- APEO-free
- Heavy-metals-free (e.g. organic tin compounds)
- Solvent-free
- Low odor
- Very efficient at low dosage



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