

Rheovis® PU 1280

(old: Collacral® PU 80)



The Chemical Company

Non-ionic rheology additive for aqueous systems, low shear thinning. Rheovis® PU 1280 is an outstanding pseudoplastic mid-shear thickener and rheology-control agent for aqueous coatings.

chemical nature

polyurethane polymer in water and diethylene glycol monobutyl ether (4:1)

Properties

physical form

clear to slightly hazy liquid

shelf life

Subject to appropriate storage under the usual storage and temperature conditions, our product is durable for at least 1 year.

typical properties (no supply specification)

solid content	~26%
VOC ISO 11890-2	~ 11%
viscosity, (DIN EN ISO 3219	
pH value (2% in water)	~ 9.5

Application

Rheovis® PU 1280 is an outstanding rheology-control thickener for water based coatings to increase viscosity in the mid-shear range and develops a pseudoplastic (shear-thinning) viscosity.

It was especially designed to improve the application and sagging properties of latex systems (emulsion paints). Rheovis® PU 1280 allows the manufacture of paints with optimal rheological properties offering, e.g.:

- increases KU-viscosity
- reduces sagging
- good leveling

The rheology behavior of formulations thickened with Rheovis® PU 1280 is independent of the pH. Under shear stress, the reduction of viscosity is distinctly lower than with cellulosic or alkali-swellaable acrylics. The rheology behavior of formulations thickened with Rheovis® PU 1280 is independent of the pH. Under shear stress, the reduction of viscosity is distinctly lower than with cellulosic or alkali-swellaable acrylics.

Rheovis® PU 1280 can be combined with other thickeners such as low- molecular-weight cellulose derivatives or acrylate thickener to improve application and storage properties.

Typical application areas are:

- interior paints
- exterior paints
- elastomeric coatings
- textured finishes
- marble stone finishes
- wood coatings for brush and spray applications
- gloss and semi gloss paints

recommended concentrations and incorporation

Rheovis® PU 1280 is supplied as a low-viscosity solution which is easy to incorporate. Rheovis® PU 1280 can be used as supplied. However, it may be diluted with water-soluble co-solvents (e.g., butyl diglycol) or with water. Typical usage levels are 0.3 – 1% of active substance, calculated on the volume of the finished paint.

Safety

When handling this product, please comply with the advice and information given in the safety data sheet and observe protective and workplace hygiene measures adequate for handling chemicals.

Note

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights, etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. The agreed contractual quality of the product results exclusively from the statements made in the product specification. It is the responsibility of the recipient of our product to ensure that any proprietary rights and existing laws and legislation are observed.

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