

Rheovis® PU 1214

(old: DSX® 1514)



general

non-ionic rheology additive for aqueous systems, low shear thinning

Rheovis® PU 1214 is a polyurethane-based associative thickener that shows thickening with only low shear thinning. It was especially designed to improve the application and hiding properties of latex systems (emulsion paints and adhesives). Rheovis® PU 1214 allows the manufacture of paints with optimal rheological properties offering, e.g.:

- superior hiding power in brush application
- excellent flow-promoting properties
- minimal roller spatter
- very good scrub and scuff resistances
- low shear thinning

chemical nature

polyurethane polymer in water/butoxy triglycol

Properties

physical form

white, opaque liquid

shelf life

When stored under the usual appropriate storage conditions, the product can be stored for 1 year.

typical properties (no supply specification)

solids content	~ 40%
density at 20 °C (68 °F)	~ 1.065 g/cm ³
Brookfield viscosity at 23 °C (73 °F)	~ 3,500 mPa·s
pH value (2% in water)	~ 7

Application

Rheovis® PU 1214 is recommended for all paints where good rheological properties are important. The main applications are interior and exterior paints which require good brush and roller application properties.

The rheology behavior of formulations thickened with Rheovis® PU 1214 is independent of the pH. Under shear stress, the reduction of viscosity is distinctly lower than with cellulosic or alkali-swelling acrylics.

Rheovis® PU 1214 can be combined with other thickeners such as low-molecular-weight cellulose derivatives or acrylate thickener to improve application and storage properties.

Because of its low viscosity, Rheovis® PU 1214 can be used as supplied. However, it may be diluted with water-soluble co-solvents (e.g., butyl diglycol) or with water.

recommended concentrations

Rheovis® PU 1214 is supplied as a highly concentrated low-viscosity solution which is easy to incorporate. 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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