

Formulation Additives

Technical Data Sheet

Rheovis[®] PU 1251 (old: DSX[®] 3551)



Product Description

Rheovis[®] PU 1251 is an extremely efficient, solvent-free, non-ionic, associative rheology modifier designed to improve dry coating performance and appearance while improving application properties of latex based coatings and adhesives. It features built-in wetting/coalescing agents that improve compatibility and ease of incorporation into formulations.

Chemical Composition

Hydrophobically modified polyether polyurethane (HEUR) polymer in water and a foam suppressing, renewable wetting agent.

Properties

Typical Properties

Solids	~ 28 – 32 %
Brookfield viscosity (LVT, sp-3, 30 rpm, 25 °C)	~ 1500 – 4500 mPa s
Specific gravity	~ 1.0 – 1.1

Typical Characteristics

Appearance	clear to hazy liquid
Active content	20%
Wetting/coalescing agent (non-VOC)	10%

These typical values should not be interpreted as specifications.

Applications

Rheovis[®] PU 1251 is recommended for use in high volume solids paints in which performance quality is critical. The major attributes of Rheovis[®] PU 1251 are best utilized in exterior and interior architectural coatings in which both brush and roller application properties are crucial.

Rheovis[®] PU 1251 is typically formulated with auxiliary thickeners such as Rheovis[®] PE 1320 NC Newtonian viscosity builder, attapulgite clays, low molecular weight cellulosic's or biogums in order to achieve optimal application, appearance, and storage properties.

The following advantages are obtained:

- Balanced KU-ICI viscosity development
- 5-20% lower use levels compared to other 25% active solvent-containing HEUR rheology modifiers
- Zero-VOC and odor-free
- Multi-functional: Built-in foam-suppressing, renewable wetting agent/coalescent
- Improved scrub resistance
- Excellent flow and leveling
- Very good response to colorant addition

Safety

General

The usual safety precautions when handling chemicals must be observed. These include the measures described in Federal, State, and Local health and safety regulations, thorough ventilation of the workplace, good skin care, and wearing of protective goggles.

Material Safety Data Sheet

All safety information is provided in the Material Safety Data Sheet for Rheovis® PU 1251.

Storage

Rheovis® PU 1251 is subject to appropriate storage under the usual storage and temperature conditions, our products are durable for at least 2 years. Rheovis® PU 1251 is packaged in 55 gallon (200 liter) tight head, polyethylene/steel composite drums. Storage in a cool, dry place away from direct heat is recommended. Additional handling information is contained in a material safety data sheet which is available on request.

Important

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