



ACRYSOL™ RM-12W Rheology Modifier

Description

ACRYSOL™ RM-12W Rheology Modifier is a solvent-free⁺, nonionic rheology modifier designed to offer high low-shear viscosity with an extremely shear thinning rheology and excellent thickening efficiency.

Unlike conventional thickeners, ACRYSOL RM-12W Rheology Modifier offers excellent sag resistance with minimal effect on flow and leveling. While not capable of providing true thixotropy, it can offer advantages typical of thixotropes. These properties include improved brush/roller loading, good anti-drip properties, good in-can structure, and excellent flow/sag balance.

Application

ACRYSOL™ RM-12W Rheology Modifier can be used in a variety of interior and exterior paint formulations. It is particularly suited for use as a co-thickener to improve flow/sag balance with other associative Rheology Modifier, such as ACRYSOL RM-2020 NPR Rheology Modifier. ACRYSOL RM-12W can be used in gloss, semigloss, sheen and flat acrylic, and vinyl acrylic latex formulations. The highly shear thinning nature of this material makes it ideal for spray applications.

ACRYSOL RM-12W Rheology Modifier is provided as an easy to handle, solvent free liquid that is easy to incorporate in the manufacturing process.

Features	Benefits
Excellent low-shear thickening efficiency	Low thickener demand
Excellent application properties Excellent paint stability and consistency	Excellent sag resistance without impacting on flow. Ideal for spray applications providing good film build with minimum sagging. Excellent brush/roller loading, and good anti-drip properties.
Solvent free, liquid	Easy to handle and incorporate during manufacturing, low odor
Stable	Formulated to resist microbial contamination

Typical Physical Properties

(These properties are typical but do not constitute specifications).

Property	Typical Values
Type	Nonionic HEUR*
Solvent	Water
Appearance	Hazy white to off white liquid
Solids	19%
Brookfield viscosity as supplied, 25°C**	4000 cP, max
Density	8.65 lb/U.S. gal (1.04 g/cm ³)
Bulking Value	0.116

*Hydrophobically Modified Ethylene Oxide-based Urethane block copolymer

**Spindle #4 @ 6 rpm

+ manufactured without added solvent

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ACRYSOL™ RM-12W Rheology Modifier / Dow Coating Materials

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**Handling
Precautions**

Before using this product, consult the Material Safety Data Sheet (MSDS)/Safety Data Sheet (SDS) for details on product hazards, recommended handling precautions and product storage.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

**Disposal
Considerations**

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Coating Materials Technical Representative for more information.

**Chemical
Registration**

Many countries require the registration of chemicals, either imported or produced locally, prior to their commercial use. Violation of these regulations may lead to substantial penalties imposed upon the user, the importer or manufacturer, and/or cessation of supply. It is in your interests to ensure that all chemicals used by you are registered. Dow does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

**Product
Stewardship**

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

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