



ACRYSOL™ DR-180 Rheology Modifier

Hydrophobically modified, alkali-soluble emulsion (HASE) type rheology modifier.

Description

ACRYSOL™ DR-180 Rheology Modifier is a hydrophobically modified, alkali-soluble, anionic associative thickener, designed to give medium shear rate viscosity in interior/exterior paints. ACRYSOL™ DR-180 Rheology Modifier can be used as either a primary or co-thickener in water based coatings.

ACRYSOL™ DR-180 Rheology Modifier offers outstanding thickening efficiency in a wide range of paints and provides very good heat-aged stability, good scrub, washability resistance and excellent color acceptance performance.

Paints formulated with ACRYSOL™ DR-180 Rheology Modifier as a sole thickener exhibits improved flow and levelling over paints thickened with low shear viscosity HASE thickeners and/or cellulosic ethers. ACRYSOL™ DR-180 Rheology Modifier also facilitates improved applied hiding due to better coating flow and smoother finish.

Delivered as a low viscosity liquid, ACRYSOL™ DR-180 Rheology Modifier is very easy to handle and incorporate into the paint. It is resistant to microbiological degradation, thereby avoids viscosity loss in the paint due to enzymatic degradation as seen with cellulose ethers. ACRYSOL™ DR-180 Rheology Modifier is solvent and APEO-free⁽¹⁾.

Key Features & Benefits

- Outstanding thickening efficiency
- Good heat-age stability and color acceptance
- Resistance to water whitening and excellent scrub resistance
- Improved flow and levelling versus cellulosic ethers
- Excellent spattering resistance
- Resistance to enzymatic attack
- Low viscosity emulsion for easy handling and incorporation into formulation

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

Typical Properties

Property	Typical Values
Appearance	Opaque, white to off-white emulsion
Solids, by weight, %	35.0
Density (lb/gallon), wet	8.85
pH	3.5
Viscosity (Brookfield LV #1, 60 rpm), cps	< 100
Stabilization	Anionic
Solvent	Water
Storage precautions	Protect from freezing



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

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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