



ACRYSOL™ RM-845 Rheology Modifier

For Architectural and Industrial Coatings

Description

ACRYSOL™ RM-845 Rheology Modifier is a new generation, solvent-free*, APEO-free**, non-ionic product. ACRYSOL RM-845 is based upon patented and proprietary technology that enables it to contain 27% solids yet be provided at a low viscosity to allow facile pumping and pouring.

ACRYSOL RM-845 Rheology Modifier builds mid-shear Storrer viscosity more efficiently than existing KU-builders. It is recommended for acrylic- and styrene/acrylic-based latex coating formulations. ACRYSOL™ RM-845 Rheology Modifier offers excellent flow and leveling, as well as gloss development, for both interior and exterior paints. It imparts a rheological profile to architectural and industrial coatings very similar to that of ACRYSOL RM-825, but with the benefit of no added solvent, allowing for ultra-low VOC formulations.

Features

- Excellent flow and leveling
- Water based, free of added solvent or APEO surfactant
- Provided as low viscosity liquid
- High thickening efficiency

Benefits

- Excellent application properties for acrylic and styrene/acrylic formulations
- Facilitates low odor, low VOC formulations
- Excellent spatter resistance
- Easy to handle and incorporate during manufacturing process

Typical Properties

These properties are typical but do not constitute specifications.

Property	Typical Values
Appearance	Hazy liquid
Solids, %	27
Solvent	Water
Brookfield Viscosity, cP	2,500 max. as supplied
pH	4.3
Density, lbs/US gal.	8.7

* manufactured without the use of solvents

** manufactured without the use of APEO surfactants

Formulation Guidelines

To meet ICI viscosity targets, either ACRYSOL™ RM-2020NPR Rheology Modifier or ACRYSOL RM-5000 Rheology Modifier is recommended as a co-thickener with the ACRYSOL RM-845. ACRYSOL RM-845 Rheology Modifier is best added under good mixing conditions to ensure complete incorporation into the formulation. ACRYSOL RM-845 should be used cautiously in applications below pH 8 because of a decrease in thickening efficiency at such lower pH's. Note that ACRYSOL RM-845 is supplied at low pH and therefore can slightly lower the pH of the paint formulation to which it is added. Small amounts of extra base may need to be added to the paint formulation to ensure that the final pH target is reached.

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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 Technical Representative for more information.

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.

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