ACRYSOL™ TT-615 Thickener

HASE Thickener

Regional Product Availability

- Asia-Pacific

Description

ACRYSOL™ TT-615 Thickener is an alkali swellable acrylic polymer emulsion used as either a primary or ancillary thickener in coatings. This product offers viscosity build comparable to high molecular weight HEC thickeners at low shear levels. Viscosity is developed by neutralization to a pH of 7 to 10. ACRYSOL™ TT-615 Thickener offers greater roller spatter resistance than cellulosic thickeners, but with a more pseudoplastic rheology profile. The liquid physical form of ACRYSOL™ TT-615 Thickener facilitates its incorporation into grinds and letdowns.

Key Features

- Facilitates the formulation of textured finish paints.
- Excellent sag resistance.
- Very good resistance to roller spattering.
- Low viscosity, water-based emulsion.
- Excellent film build capability.
- Offers resistance to microbe and enzyme attack.

Benefits

- Offers improved application properties and cost effectiveness than cellulosic thickeners.
- Easy to handle and incorporate into formulations.
- Facilitates the formulation of stable latex paints.

Typical Properties

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

Property	Typical Values
Appearance	Opaque, white to off-white liquid
Solids, by weight, %	30.0
Density, wet, (g/ml)	1.05
pH	2.7
Viscosity (Brookfield LV #1, 60 rpm, 25 °C), cps	< 35
Stabilization	Anionic
Chemical type (1)	HASE
Storage precautions	Protect from freezing
Equivalent weight (2)	218

(1) HASE = **H**ydrophobically modified **A**lkali-**S**oluble **E**mulsion

(2) Weight of polymer solids exactly neutralized by 40 grams of solid Sodium Hydroxide.

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Product Addition

ACRYSOL™ TT-615 Thickener is an alkali swellable thickener, which achieves its thickening effect when it is neutralized. When added full strength to the letdown, care must be taken to avoid local shock or gross paint instability. There must be sufficient base in the system before addition of ACRYSOL™ TT-615 Thickener to fully neutralize the thickener and still remain on the alkaline side over the normal shelf life of the paint. ACRYSOL™ TT-615 Thickener should be added slowly with good agitation. If this approach is not sufficient, ACRYSOL™ TT-615 Thickener can be diluted 1:1 or 2:1 with water prior to addition to the letdown to reduce the chance for shocking.

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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

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 within the Asia-Pacific 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.

Note on Asia-Pacific Product Line

Product availability and grades vary throughout the countries in Asia-Pacific. Please contact your local Dow Coating Materials representative for further information and samples.

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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