ACRYSOL™ ASE-60 Alkali-Soluble Anionic Thickener

Description

ACRYSOL ASE-60 is an acid containing, cross-linked acrylic emulsion copolymer. When the emulsion is diluted with water and neutralised with a base, each emulsion particle swells greatly. The emulsion clarifies under these conditions and becomes highly viscous.

ACRYSOL ASE-60 is effective in improving low shear rate (Brookfield) viscosity, resulting in paints that have highly shear thinning characteristics.

Paints formulated with ACRYSOL ASE-60 as a sole thickener exhibit a high yield value or gel structure. This structure develops upon removal of shear, hence ACRYSOL ASE-60 is suited to the development of moderately textured paints.

Other benefits to the paint manufacturer include reduced roller spatter compared to high molecular weight cellulosic thickeners.

As ACRYSOL ASE-60 is non-cellulosic, it offers a high degree of resistance to bacterial and enzymatic attack, resulting in long term paint viscosity stability.

ACRYSOL ASE-60 is recommended for use in textured paints, or as a secondary thickener to control sagging in paints having too much flow.

ACRYSOL ASE-60 can be used in exterior paints but we suggest formulators exercise caution to minimise potential blistering which can occur due to the anionic nature of this product.

Where superior water resistance is required we would recommend the use of ACRYSOL SCT-275 nonionic associative rheology modifier.

Use of ACRYSOL ASE-60 alone or combination with other thickeners can yield the following benefits:

Features

- High level of texture
- Excellent sag resistance
- Improved spatter resistance
- Microbe-enzyme resistance

Typical Properties
These properties are typical but do not constitute specifications.

Appearance	Milky white emulsion
Chemical Type	Anionic
pH	3.5
Solids, %	28.0
Specific Gravity, @ 25°C	1.054
Brookfield Viscosity RVT, 12 rpm	10 mPa.s
Storage requirements	Protect from freezing

Formulating Guidelines

Contact your local representative for suggested starting point formulations and samples of ACRYSOL ASE-60 acrylic emulsion.

Safe Handling Information

Based on its composition, ACRYSOL ASE-60 acrylic emulsion is not expected to be toxic via single, acute, oral or dermal exposure. It may be a mild skin, eye or respiratory irritant.

Rohm and Haas Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products. Government legislation requires workers must have access to and understand MSDS on all hazardous substances to which they are exposed. Thus it is important that you provide appropriate training and information to your employees and make sure they have available to them MSDS on any hazardous products in their workplace.

MSDS should be obtained from your suppliers of other materials recommended in this bulletin.

Rohm and Haas Company is a member of the Chemical Manufacturers Association and similar associations throughout the world. Rohm and Haas Company is committed to CMA's Responsible Care Program.

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 interest to ensure that all chemicals used by you are registered. Rohm and Haas Company does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

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