



Technical Data Sheet

ACRYSOL™ ASE-60ER Thickener

Product Description

ACRYSOL™ ASE-60ER Thickener is anionic ASE (alkali swellable emulsion) rheology modifier.

Applications

ACRYSOL™ ASE-60ER Thickener is designed to adjust the viscosity of interior and exterior coatings. Its primary use is to increase low-shear viscosity to add structure to roller applied coatings.

ACRYSOL™ ASE-60ER Thickener can be used in most coating formulations where it provides a balance of sag and syneresis resistance, and a creamy in-can appearance.

Used at low levels, ACRYSOL™ ASE-60ER Thickener can improve anti-settling properties of coatings without affecting other application properties. Delivered as a low viscosity liquid, ACRYSOL™ ASE-60ER Thickener is very easy to handle and incorporate into the coating. For viscosity build-up pH of the coating must be at least neutral or in the alkaline region. It is resistant to microbiological or enzymatic degradation, thereby avoiding viscosity loss in the coating.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Property	Unit	Result
Appearance		Milky white liquid
Solids content	%	27.5–28.5
pH		2.1–3.5
Density	g/cm ³	1.06
Viscosity neutralized (Brookfield LV, spindle 3 @ 12 rpm, 25°C)	mPa·s	3000–6000

Formulation Guidelines¹

ACRYSOL™ ASE-60ER Thickener can be added to the mill-base, to the letdown, or as a post addition without affecting performance properties, as long as the medium is sufficiently alkaline during the incorporation and sufficient mixing is available. Supplied as a low viscosity emulsion, ACRYSOL™ ASE-60ER Thickener is easy to pump or pour and therefore very suitable for bulk handling and/or automatic metering equipment.

¹The formulation guidelines are given to help formulators: see disclaimers and notice on the last page.

Formulation Guidelines (Cont.)

As mentioned above, ACRY SOL™ ASE-60ER Thickener can be incorporated at different stages of formulation, provided that enough base is available to neutralise the thickener and additional base is used to adjust pH.

In all cases it is recommended to add ACRY SOL™ ASE-60ER Thickener diluted 1:1 with water. Adding ACRY SOL™ ASE-60ER Thickener as one of the final ingredients in the letdown is convenient in the laboratory to determine the approximate amount of thickener that will be needed to achieve the desired viscosity, or in the plant to make final viscosity adjustments. The addition of ACRY SOL™ ASE-60ER Thickener in this manner assumes reasonably good agitation in the vessel. Less than ideal mixing can be compensated for, in many cases, by adding the thickener emulsion more slowly.

In any case the addition of the appropriate amount of base prior to the ACRY SOL™ ASE-60ER Thickener is essential in order to avoid reduction in pH and subsequent pigment flocculation.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life and Storage

ACRY SOL™ ASE-60ER Thickener should be stored at temperatures between 5°C and 40°C in tightly sealed containers. Avoid freezing of the material! Upon purchase, applicable legislation on storage must be maintained/followed. We recommend using the product under safety precautions as described in the SDS. Avoid contact with eyes and skin. Large quantities should be handled in a correctly ventilated area. Material can create slippery conditions.

As the product contains water corrosion-resistance equipment should be used for processing. Low shear pumps like diaphragm pumps should be used.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

Health and Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, dow.com, or consult your local Dow representative.

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.

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.

dow.com

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