



ACRYSOL™ ASE-60 ER

ASE Rheology Modifier

Product Description

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

Application

ACRYSOL™ ASE-60 ER 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 paints. ACRYSOL™ ASE-60 ER 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-60 ER will improve antisetling properties of coatings without affecting other application properties.

Delivered as a low viscosity liquid, ACRYSOL™ ASE-60 ER is very easy to handle and incorporate into the paint. 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 Properties¹⁾

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

¹⁾ Please note that the values shown are typical values for your guidance. They are not to be taken as specifications and are subject to certain variability. Please consult the sales specifications for details.

Formulation Guidelines

ACRYSOL™ ASE-60 ER 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-60 ER is easy to pump or pour and therefore very suitable for bulk handling and/or automatic metering equipment.

As mentioned above, ACRYSOL™ ASE-60 ER 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 ACRYSOL™ ASE-60 ER diluted 1:1 with water.

Adding ACRYSOL™ ASE-60 ER 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. Addition ACRYSOL™ ASE-60 ER in this manner assumes reasonably good agitation in the vessel. Less than ideal mixing can be



Technical Data Sheet

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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 ACRYSOL™ ASE-60 ER is essential in order to avoid reduction in pH and subsequent pigment flocculation.

Health and Safety Considerations

Safety Data Sheets (SDS) are available from The Dow Chemical Company. SDS are provided to help customers satisfy their own handling, safety and disposal needs and those that may be required by locally applicable health and safety regulations. SDS are updated regularly, therefore, please request and review the most current SDS before handling or using any product. For further questions consult your Dow contact person.

Storage and Handling

ACRYSOL™ ASE-60 ER should be stored at temperatures between 5°C and 40°C in tightly sealed containers. Avoid freezing of the material! Local legislation on storage must be 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.

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| Additional Information | For more information you may call the following numbers: | | | | | | | |
| | <table><tr><td>Europe*)</td><td>+800-3-694-6367 (toll free)</td></tr><tr><td>Italy</td><td>800-783-825 (toll free, national)</td></tr><tr><td>Europe, Middle East, Africa</td><td>+31-11567-2626 (toll call)</td></tr><tr><td>South Africa</td><td>+800-99-5078 (toll free, national)</td></tr></table> <p>*) International toll free from Austria, Belgium, Denmark, Finland (prefix 990), France, Germany, Hungary, Ireland, The Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.</p> | Europe*) | +800-3-694-6367 (toll free) | Italy | 800-783-825 (toll free, national) | Europe, Middle East, Africa | +31-11567-2626 (toll call) | South Africa |
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