



## Product Data Sheet

### **ACOUSTICRYL™ AV-1220**

Copolymer Emulsion for Liquid Applied Sound Damping Coatings

#### **Regional Product Availability**

- Asia
- Europe
- North America

#### **Description**

ACOUSTICRYL™ AV-1220, which is powered by AVANSE™ Latex Technology, is an acrylic copolymer emulsion designed specifically for the use in sprayable waterborne damping coatings.

#### **Features & Benefits**

- This latex leads to peak vibrational damping centered around 22°C in a wide range of un-plasticized formulations when measured in accordance with SAE J1637 or ASTM E-756. Damping at 22°C also occurs with center excitation measurement techniques.
- This latex is based on AVANSE™ Latex Technology which provides the capability to create unique composite particles in the coating through the increased interactions between the AVANSE™ latex particles and the surfaces of the fillers.
- Due to this unique technology, this latex allows for coating formulations with some combination of the following:
  - Improved damping performance at equivalent weights vs. formulations based on conventional latexes.
  - Equal performance with a significant reduction in the coating weight required vs. formulations based on conventional latexes.
  - Formulation flexibility to use less latex and formulate at higher filler levels without a significant drop in performance vs. formulations based on conventional latexes.
  - Formulation flexibility to increase the level of platy fillers which are better for damping vs. conventional latexes which cannot incorporate as much of these platy fillers.
- This latex is specifically designed to allow for coating formulations to be baked at the elevated temperatures of typical OEM paint shop ovens without the blistering and bubble imperfections that can result when drying 2 mm to 6 mm thick coatings in these high temperature conditions.
- This latex is non-ammonia neutralized which results in low odor formulations ideal for paint shop applications.

## Typical Properties

(These properties are typical but do not constitute a specification).

Properties	Typical Values
Appearance	Milky White
Class	Acrylic Copolymer
Solids (%)	50.0–51.0
Wet Density (lb/gallon)	8.7–8.9
pH	8.6–9.3
Brookfield Viscosity (cP)	50–250
Peak Damping Location (°C)	+22

### 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.

Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container tightly closed. Do not breathe vapors, mist or gas.

Other data: Monomer vapors can be evolved when material is heated during processing operations. See MSDS for types of ventilation required.

### Storage

Store products in tightly closed original containers at temperatures recommended on the product label. Keep from freezing – product stability may be affected. Storage temperature: 1–49°C (34–120°F). STIR WELL BEFORE USE.

### 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.

### 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 interests to ensure that all chemicals used by you are registered. The Dow Chemical Company does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

### 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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