



Product Data Sheet

ACOUSTICRYL™ AV-1420 Copolymer Emulsion

For Liquid Applied Sound Damping Coatings

Regional Product Availability

- Global

Description

ACOUSTICRYL™ AV-1420 Copolymer Emulsion, which is powered by the AVANSE™ Resin 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 42°C in a wide range of un-plasticized formulations when measured in accordance with SAE J1637 or ASTM E-756. Damping at 42°C also occurs with center excitation measurement techniques.
- This latex is based on AVANSE™ Resin Technology which offers 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 facilitates 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 facilitate 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 and are an excellent choice for paint shop applications.

Typical Properties

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

Properties	Values
Appearance	Milky White
Class	Acrylic Copolymer
Solids (%)	55–56
Wet Density (lb/gallon)	8.7–8.9
pH	8.6–9.3
Brookfield Viscosity (cP)	1–1500
Peak Damping Location (°C)	+42

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.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

Storage

Store products in tightly closed original containers at temperatures recommended on the product label.

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.

Contact:

North America: 1-800-447-4369
Latin America: (+55)-11-5188-9000
Europe: (+800)-3-694-6367
Asia-Pacific: (+800)-7776-7776
www.dow.com

Notice: No freedom from any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

