



Product Data Sheet

MAINCOTE™ IC-1002 Emulsion

Waterborne Acrylic Copolymer for Industrial Coatings

Introduction

MAINCOTE™ IC-1002 Emulsion is a hydrophobic acrylic-styrene copolymer with excellent flexibility and adhesion to metal substrates. This versatile binder can be combined with low thermal conductivity fillers to form waterborne thermal insulation coatings with high pigment volume concentrations (PVC), high volume solids and low VOC levels (< 25 g/L). MAINCOTE™ IC-1002 Emulsion offers uniform cure in high build insulation coatings.

Features & Benefits

- Low coalescent demand, low VOC formulation capability (< 25 g/L)
- Excellent flexibility
- Excellent pigment binding capacity
- Hydrophobic backbone composition offers good water resistance
- High film build without mudcracking
- Contributes to excellent corrosion resistance as part of a coating system

Typical Physical Properties

These properties are typical but do not constitute specifications.

Property	Typical Values
Appearance	Milky, White Liquid
Solids Content, %	50.0
pH	9.4
Viscosity, cP (#2 Spindle @ 60 rpm, 25°C)	< 700 cP
Weight per U.S. Gallon (Wet, lbs/gal)	8.70
Bulking Value (Wet), gal/lbs	0.115
Bulking Value (Dry), gal/lbs	0.110
MFFT (°C)	9

Potential Applications

High performance, high film build, low VOC waterborne thermal insulation coatings for:

- Safe touch coatings for personnel protection
- Surface temperature reduction
- Thermal energy management for process control and/or energy conservation
- Improved management of corrosion under insulation (CUI) issues
- Use on hot and/or cold metal surfaces such as pipes, process equipment and storage tanks
- Easy application on surfaces with complex geometries needing insulation

**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.

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 Coating Materials 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.

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

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