



MAINCOTE™ EC-11 Acrylic Emulsion

Waterborne Acrylic Polymer for Industrial Coatings

Introduction

MAINCOTE™ EC-11 Acrylic Emulsion is an acrylic polymer recommended for use in elastomeric coatings for industrial maintenance applications on both metal and cementitious substrates. When formulated as an anti-corrosive coating, MAINCOTE™ EC-11 Acrylic Emulsion can be applied to both clean and marginally-prepared rusty steel, and imparts excellent corrosion resistance, adhesion, low temperature flexibility and dirt pickup resistance. When applied to concrete surfaces, MAINCOTE™ EC-11 Acrylic Emulsion provides excellent resistance to blistering and the stresses imparted by thermal cycling. It is especially useful in applications where prevention of spalling and scaling of the concrete surface, caused by exposure to water and deicing chemicals, is required. The proper formulation and elastomeric nature of MAINCOTE™ EC-11 Acrylic Emulsion facilitates the production of coatings with excellent flexibility, very low VOC levels (< 50 g/L), and the ability to be applied in thick films (e.g., 10–20 mils dry) without sagging or mudcracking.

Features & Benefits

- Surface tolerant, allowing the coating of marginally-prepared rusty steel
- Excellent corrosion and water resistance
- Elastomeric coating can bridge small, expanding and contracting cracks in concrete
- Excellent adhesion to concrete, clean and rusty steel, and galvanized steel
- Flexibility and impact resistance, even at low temperatures
- High film build in a single coat (e.g., 10–20 mil dry)
- Low coalescent demand permits formulation at very low VOC levels (< 50 g/L)
- Self-crosslinking mechanism provides dirt pick-up resistance
- APEO-free (made without the use of APEO surfactants)

Typical Physical Properties

These properties are typical but do not constitute specifications.

Property	Typical Values
Appearance	Milky, White Liquid
Solids Content, %	55.0
pH	9.3
Viscosity, cP (#2 Spindle @ 60 rpm, 25°C)	< 200 cP
Weight per U.S. Gallon (Wet, lbs/gal)	8.71
Bulking Value (Wet), gal/lbs	0.115
Bulking Value (Dry), gal/lbs	0.111
MFFT (°C)	< 0

Potential Applications

- Industrial maintenance coatings for steel and concrete
- Commercial architectural finishes for metal
- Transportation infrastructure (e.g., concrete highway dividers, sound barriers, bridges)
- Metal roofing (i.e., refurbishment of metal roofs)

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.

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