



MAINCOTE™ CO-4181 Acrylic Emulsion

100% Acrylic Polymer for Thermosetting Factory Coatings

Regional Product Availability

Asia-Pacific

Description

MAINCOTE™ CO-4181 Acrylic Emulsion is a thermosetting acrylic emulsion polymer designed for the factory pre-finishing of coil coatings destined for outdoor use. Coatings using this vehicle are very durable.

MAINCOTE CO-4181 Acrylic Emulsion is typically blended with other 100% acrylic emulsion polymers to tailor adhesion and flexibility for specific substrate and end-use application requirements.

Rapid cross-linking of MAINCOTE CO-4181 Acrylic Emulsion coil coatings without catalyst will occur when the coating reaches a surface temperature of 230 Celsius or higher. With suitable catalysis and sufficient peak surface temperature, coatings based on MAINCOTE CO-4181 Acrylic Emulsion can begin to crosslink at 135-150 Celsius.

Key Features

- 100% acrylic polymer composition.
- Compatible with a wide range of other acrylic emulsions.
- Very good storage ability.

Benefits

- Excellent long term durability, especially color retention and gloss retention.
- Wide formulating latitude.
- Very good pot-life of finished paint.

Typical Properties

(The following properties are typical but do not constitute specifications).

Property	Typical Values
Appearance	Opaque, white to off-white liquid
Solids, by weight, %	45.0
Density (g/ml), wet	1.06
pH	9.0
Glass Transition Temperature, Tg (± 2°C)	65
Viscosity (Brookfield LV #2, 60 rpm), cps	< 500
Storage precautions	Protect from freezing

**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 Technical Representative for more information.

**Chemical
Registration**

Many countries within the Asia-Pacific 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. Dow does not supply unregistered products unless permitted under limited sampling procedures as a precursor to registration.

**Note on
Asia-Pacific
Product Line**

Product availability and grades vary throughout the countries in Asia-Pacific. Please contact your local Dow Coating Materials representative for further information and samples.

**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:

Australia / NZ +61-3-9956-7500
South East Asia +65-6861-1077
Greater China +86-21-3851-1000
Japan +81-3-5460-2150
Korea +82-10-5265-3736
India +91-22-6602-8888
<http://www.dow.com/coating>

Notice: No freedom from infringement of 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.



UNRESTRICTED – May be shared with anyone
®™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow
MAINCOTE™ CO-4181 Acrylic Emulsion / Dow Coating Materials

883-00306-0514-APC-EN
05/2014, Rev. 0