



PRIMAL™ EC-4811

100% Acrylic Emulsion Polymer for Elastomeric Roof and Wall Coatings

Regional Product Availability

- Asia-Pacific

Description

PRIMAL™ EC-4811 acrylic emulsion is a high performance 100% acrylic polymer specially designed for elastomeric roof and wall coatings. PRIMAL™ EC-4811 has been designed with special polymerization chemistry to perform outstanding balance of tensile strength and elongation at break, even at sub-zero temperatures. PRIMAL™ EC-4811 has outstanding water swell resistance as well as water ponding resistance with superior adhesion to a wide range of roof substrates including metal, concrete, spray polyurethane foam (SPF), asphalt etc. PRIMAL™ EC-4811 provides excellent dirt pickup resistance and durability, helping to reduce the darkening of light-colored roof coatings over time for long-term energy efficiency. When applied at high film builds, PRIMAL™ EC-4811 provides an effective barrier to carbon dioxide and liquid water.

Key Features

Outstanding balanced flexibility, toughness and elastic recovery properties, even at sub-zero temperatures. Superior resistance to water swell and water ponding. Excellent adhesion to a wide variety of roof substrates under both wet and dry conditions. Internally plasticized so that coalescing solvent and external plasticizers are not essential. Very effective barrier to carbon dioxide and ponded water. Low toxicity, straightforward application and simple clean up with water

Benefits

Resistant to degradation by UV light giving excellent long term durability. Ability to move with the substrate, particularly to bridge cracks that change size with the weather. Versatility of use providing very long life coatings even under harsh weather conditions. Minimal film property change over very long exposure periods and as temperatures fluctuate. Prevents rusting of reinforcing bars leading to concrete rupture. Easy application by conventional methods

Typical Physical Properties

These properties are typical but should not be considered specifications.

Property	Typical Values
Appearance	Milky white liquid emulsion
Polymer Type	Pure acrylic
Solids content, by weight %	52.5-53.5
pH	7.5-8.5
Brookfield viscosity, cPs, 25°C max.	<1000
Minimum Film Forming Temperature (°C)	<0

**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

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 Construction Chemicals 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 Construction Chemicals 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.

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