



DIRTSHIELD™ K-2 Acrylic Emulsion

100% Acrylic Polymer for Exterior High Quality Paints

Regional Product Availability

- Asia-Pacific

Description

DIRTSHIELD™ K-2 Acrylic Emulsion is a 100% acrylic polymer emulsion designed for exterior high-quality paints that offer a high level of dirt pick-up resistance with excellent gloss and appearance properties. DIRTSHIELD K-2 Acrylic Emulsion facilitates the formulation of gloss and sheen paints but can also be used in higher PVC paints. DIRTSHIELD K-2 Acrylic Emulsion has excellent stability with ROPAQUE™ Opaque Polymers and a wide range of pigments and extenders. It offers excellent performance over masonry substrates, offering excellent adhesion and efflorescence resistance.

DIRTSHIELD K-2 Acrylic Emulsion facilitates the formulation of premium quality (high performing) water-based exterior paints for demanding conditions, offering excellent durability, dirt pick-up resistance, appearance, water resistance, resistance to hydrolysis and efflorescence. It offers an alternative for solvent-borne acrylic and polyurethane high gloss systems as well as an alternative to ceramic tile exteriors, thus opening up new market opportunities.

Clear coatings based on DIRTSHIELD K-2 Acrylic Emulsion offer excellent results when used as sealers for concrete and masonry surfaces; and as protective clear coatings for elastomeric coatings in harsh climates.

Key Features

- 100% acrylic composition.
- Excellent dirt pick-up resistance under tropical weather conditions.
- Excellent gloss capability, excellent block resistance.
- High exterior durability.
- Excellent adhesion to masonry substrates.
- APEO-free⁽¹⁾ and no added formaldehyde or formaldehyde generators⁽²⁾.

Benefits

- Excellent long term durability, water resistance and efflorescence resistance.
- Facilitates the formulation of gloss to low sheen paints offering a cleaner appearance in difficult conditions.

Typical Properties

(These properties are typical but do not constitute specifications).

Property	Typical Values
Appearance	Opaque, white to off-white liquid
Solids, by weight, %	50.0
Density, wet, (g/ml)	1.07
pH	8.7
Minimum Film Formation Temperature, (± 2 °C)	44
Viscosity (Brookfield LV #2, 30 rpm, 25 °C), cps	< 800
Storage precautions	Protect from freezing

(1) Manufactured without the use of Alkyl Phenyl Ethoxylate (APEO) surfactants.

(2) Formaldehyde is a ubiquitous material in our environment. Currently there is no accepted regulatory or industry definition of "Formaldehyde-Free." Therefore, we purposely refrain from using the term "Formaldehyde-Free." However, for DIRTSHIELD™ K-2 Acrylic Emulsion, we do not intentionally add Formaldehyde or Formaldehyde generators.

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 Coating Materials 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

www.dow.com

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