



ROSHIELD™ 3311 Emulsion

For High Performance Waterborne Wood Coatings

Regional Product Availability

- Asia-Pacific

Description

ROSHIELD™ 3311 Emulsion is designed for use in factory-applied, waterborne, interior wood coatings. It offers good early sandability, block resistance, and stain resistance, as well as extremely low micro-foam entrapment.

ROSHIELD 3311 Emulsion is suggested as a sealer and topcoat in clear coatings and offers excellent clarity over both dark and light woods. The proprietary self-crosslinking chemistry is responsible for rapid cure and good stain resistance.

Key Features

- Quick hardness development.
- APEO-free⁽¹⁾ and no added formaldehyde or formaldehyde generators⁽²⁾.
- Good application properties.
- Excellent film clarity.
- Good gloss potential.
- Very good block resistance, stain removal and adhesion properties.

Benefits

- Facilitates the formulation of high gloss, clear wood coatings with excellent film clarity.

Typical Properties

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

Property	Typical Values
Appearance	Opaque, white to off-white liquid
Solids, by weight, %	40.5
Density, wet, (g/ml)	1.03
pH	7.5
Minimum Film Formation Temperature, ($\pm 2^{\circ}\text{C}$)	42
Viscosity (Brookfield LV #2, 60 rpm, 25 $^{\circ}\text{C}$), cps	< 500
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 ROSHIELD™ 3311 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

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