



Technical Data Sheet

ROSHIELD™ 3188 Acrylic Emulsion

Waterborne Acrylic Polymer for Industrial Coatings

Introduction

ROSHIELD™ 3188 Acrylic Emulsion is a self-crosslinking acrylic copolymer 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 microfoam entrapment. ROSHIELD™ 3188 Acrylic Emulsion is recommended for sanding sealers and clear topcoats, and offers excellent clarity and appearance over both dark and light woods. Its self-crosslinking chemistry is responsible for its rapid cure and excellent stain resistance.

Features & Benefits

- Self-crosslinking acrylic copolymer
- Excellent stain, chemical and solvent resistance
- Excellent clarity and appearance (warmth) in clear wood coatings
- Low microfoam entrapment
- Excellent hardness and mar resistance

Typical Physical Properties

These properties are typical but do not constitute specifications.

Property	Typical Values
Appearance	White to Off-white Opaque Liquid
Solids Content, %	40.5
pH	7.0–8.0
Viscosity, cP (#1 Spindle @ 60 rpm, 25°C)	< 100 cP
Weight per U.S. Gallon (Wet, lbs/gal)	8.80
Bulking Value (Wet), gal/lbs	0.114
Bulking Value (Dry), gal/lbs	0.104
MFFT (°C)	43

Potential Applications

- Clear lacquers for wood furniture, cabinetry and joinery
- General industrial finishes for wood
- DIY varnishes for wood

**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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