



RHOPLEX™ PR-409AF Emulsion

Description

RHOPLEX™ PR-409AF Emulsion is an aqueous, all-acrylic binder designed for premium performance in universal stain blocking primers and primer-less paints. It's distinct molecular weight distribution, combined with ambient crosslinking enables excellent adhesion to a variety of substrates without the use of APEO surfactants¹. Coatings based on RHOPLEX™ PR-409AF Emulsion provide robust adhesion to metals, wood, masonry, cementitious, ceramic, alkyd and especially aged chalky substrates. The great compatibility of RHOPLEX™ PR-409AF Emulsion with zinc oxide can further enhance the exceptional stain blocking (household and tannin) and efflorescence of primers made with it. This binder further affords step out performance with the unusual combination of superior crack resistance combined with excellent dirt pick up resistance.

Typical Properties

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

Property	Typical Values
Appearance	Milky White Liquid
Solids Content	44.5–45.5%
Brookfield Viscosity (#2 spindle, @ 60 rpm, 25°C)	< 1000 CP max
pH	8.5–9.5
Density	8.81 lb/US gal
Bulking Value of Dried Solids	0.1054 US gal/lb
Minimum Film Formation Temperature	4°C
Recommended Coalescent Level	2–4 % Texanol on binder solids

Features and Benefits

Coatings based on RHOPLEX™ PR-409AF Emulsion have excellent:

- APEO-free¹
- Adhesion to and repaint surfaces
- Stain blocking (tannin and household)
- Crack resistance over dimensional unstable substrates
- Efflorescence resistance
- Tint retention
- Corrosion resistance

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

**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.

**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.

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