



RHOPLEX™ DCR-317 Acrylic Binder

100% Acrylic Binder for APEO-Free, Low VOC Deck & Concrete Restoration Coatings

Description

RHOPLEX™ DCR-317 is an aqueous all-acrylic emulsion polymer designed for formulating into high solids Deck & Concrete Restoration coatings. Restoration coatings can be formulated with RHOPLEX DCR-317 Binder to help provide excellent flexibility and dirt pick-up resistance, in addition to adhesion to concrete and well-weathered wood.

Features

- Provides ability to help formulate high-build coatings for Deck & Concrete Restoration
- 100% Acrylic
- APEO-free*
- Excellent dirt pick-up resistance
- Excellent cracking resistance and flexibility over well-weathered wood
- Excellent abrasion resistance
- Very good stain and chemical resistance
- Very good adhesion and blister resistance over concrete and well-weathered wood

*Manufactured without the use of APEO surfactants

Typical Physical Properties

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

Property	Typical Values
Appearance	Milky white liquid
Solids, weight	60.5%
pH	8.7-9.0
Density	8.8 lb/gal
Minimum Film Formation Temperature	0°C
Viscosity (Brookfield, #3/30rpm)	800 cP
APEO-free?	Yes

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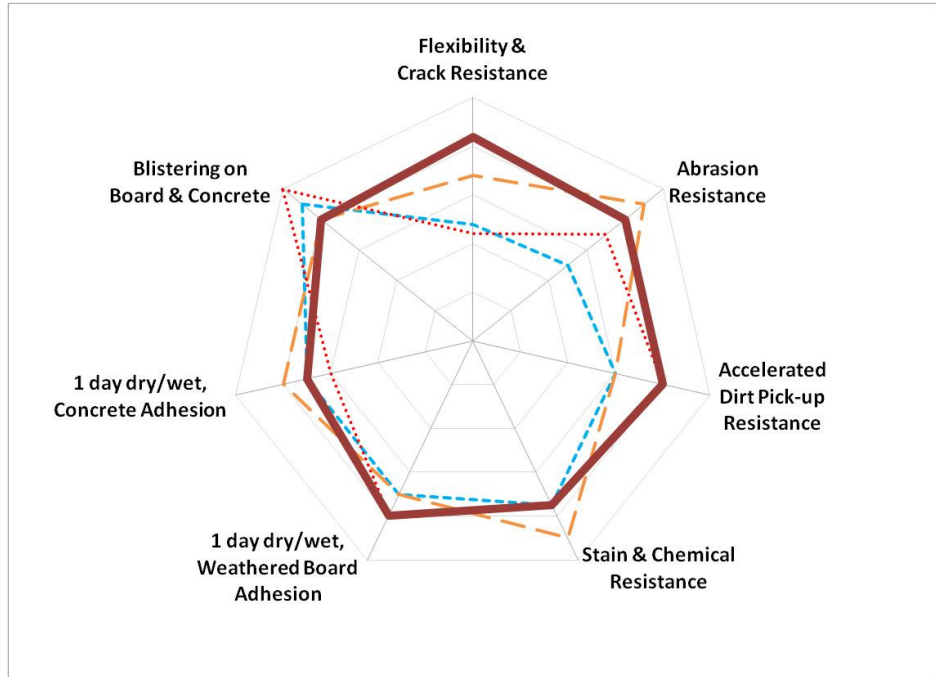
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RHOPLEX™ DCR-317 Acrylic Binder / Dow Coating Materials

PERFORMANCE

The performance of RHOPLEX™ DCR-317 Binder in a 43.5% PVC / 48% Volume Solids formulation (tinted to Cedar-tone) is shown in Figure 1 below, in comparison to three commercially-available deck & concrete restoration coating products (also tinted to cedar-tone). The results shown in the figure show how RHOPLEX DCR-317 Binder can provide a very good balance of properties that are needed for restoration coatings, highlighted by an excellent combination of flexibility and crack resistance along with dirt pick-up resistance.

Figure 1 – Lab performance properties of RHOPLEX DCR-317 Binder (—) in Cedar-tone starting point formulation (43.5% PVC/48% Volume solids, 50g/L VOC), compared to three commercially-available Deck & Concrete Restoration coatings.



**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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