



RHOPLEX™ VSR-1050 100% Acrylic Emulsion

Description

Unique polymer architecture and ambient crosslinking are the foundation for exceptional performance in paints based on RHOPLEX™ VSR-1050 100% Acrylic Emulsion. The versatility of RHOPLEX™ VSR-1050 100% Acrylic Emulsion affords formulators one resin that provides outstanding performance in flat through semigloss paint formulations, for interior and exterior applications. The added benefit of low coalescent demand, enables paint formulators to meet the strictest VOC requirements in North America while delivering performance that exceeds conventional emulsion technology. Paints based on RHOPLEX™ VSR-1050 100% Acrylic Emulsion excel in block, stain removal, film hardness, adhesion and scrub performance.

Features & Benefits

- 100% acrylic, ambient crosslinking backbone
- Outstanding early block and film hardness
- Excellent household stain removal
- Very good abrasive scrub resistance
- Excellent alkyd adhesion
- User-friendly for formulators
- Excellent slurry compatibility
- Low coalescent demand
- Formulation latitude
 - Flat through semigloss
 - Interior/exterior
 - Meets new VOC regulations (50 g/l to 150 g/l)

Typical Physical Properties¹

Property	Typical Values
Appearance	White Milky Liquid
Solids, %	49.5–50.5
pH	9.2–9.7
Viscosity, Brookfield, cP (#2 spindle, 60 rpm, 25°C)	400 max
Density, US lb/gal	8.75
Bulking Value of Dry Solids, US lb/gal	0.109
Minimum Film Formation Temperature, (MFFT), °C	2
Recommended Coalescent Level (on Binder Solids), %	2–3

1. These properties are typical but do not constitute specifications.

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.

CAUTION! Keep combustible and/or flammable products and their vapors away from heat, sparks, flames and other sources of ignition including static discharge. Processing or operating at temperatures near or above product flashpoint may pose a fire hazard. Use appropriate grounding and bonding techniques to manage static discharge hazards.

CAUTION! Failure to maintain proper volume level when using immersion heaters can expose tank and solution to excessive heat resulting in a possible combustion hazard, particularly when plastic tanks are used.

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 Technical Representative for more information.

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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