



Technical Data Sheet

RHOPLEX™ Multilobe™ 200 100% Acrylic Binder

For Exterior Flat Paints, Sheen Paints, and Opaque Stains

Introduction

RHOPLEX™ Multilobe™ 200 100% Emulsion Polymer gives you the outstanding durability, tint retention, and dirt resistance you've come to expect from an all-acrylic binder. And more. Unlike other acrylic binders that contain only spherical particles, RHOPLEX™ Multilobe™ 200 Emulsion Polymer contains an optimized level of both spherical and lobed particles.

This unique lobed particle geometry enhances brush drag. The result is a binder that provides an extraordinary combination of acrylic durability, film build, chalk adhesion and minimized thickener, and surfactant levels in the paint formulation.

RHOPLEX™ Multilobe™ 200 Emulsion Polymer saves on raw material costs in that less surfactant is needed for color acceptance in tint bases. Foaming and surfactant leaching are minimized, too.

A summary of features and benefits can be found in Table 2. These properties result in an exceptionally attractive balance of cost and performance. This all-acrylic binder provides excellent value for exterior architectural paints.

Typical Physical Properties¹

Property	Typical Values
Solids Content, %	53 - 54
pH	8.0 - 9.0
Viscosity, cP	300 - 1500
Gel Content, g/qt	
100 Mesh, max	0.05
325 Mesh	0.10
Bulking Value, US gal/lb Dry Solids	0.107
Tg, DSC, onset, °C	9

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

Features and Benefits

Features	Manufacturer Benefit	User Benefit
- Increased film build - Chalk-adhesion	Minimized level and cost of thickener No alkyd modification required	Best applied hiding, uniformity of appearance and durability Resistance to blistering and related ultimate flaking Elimination of alkyd modification means better mildew resistance, tint retention and color compatibility, and easier brush clean-up
Wet adhesion	Tolerates rheology modifiers; suitability for variety of substrates	Resistance to cracking, flaking, and peeling over wood and repaint surfaces
Lower cost	Outstanding balance of properties at a lower raw material cost compared to other all-acrylic binders	Potential for higher value exterior paints
All-acrylic binder	Proven performance over a broad formulating range	Confidence in quality of paint
Chalk resistance/dirt resistance	Formulating latitude; Flat and sheen paints; use of different extender types	Best long-term tint retention and appearance
Minimized level of surfactant for color acceptance	Ease of color acceptance; reduced foaming, surfactant leaching and water sensitivity; reduced raw material costs	Better appearance; minimized foaming

Material Safety Data Sheets

The Dow Chemical Company Material Safety Data Sheets (MSDS) contain pertinent information that you may need to protect your employees and customers against any known health or safety hazards associated with our products.

Under the OSHA Hazard Communication Standard, workers must have access to and understand MSDS on all hazardous substances to which they are exposed. Thus, it is important that you provide appropriate training and information to your employees and make sure they have available to them MSDS on any hazardous products in their work place.

The Dow Chemical Company sends MSDS on non-OSHA-hazardous as well as OSHA-hazardous products to both the "bill to" and "ship to" locations of all our products (whether or not they are considered OSHA-hazardous). If you do not have access to one of these MSDS, please contact your local Dow representative for an additional copy. Updated MSDS are sent upon revision to all customers of record. In addition, MSDS are sent on an annual basis to all customers of record. MSDS should be obtained from your suppliers of other materials recommended in this bulletin.

For More Information

To further assist you, The Dow Chemical Company publishes *Emulsion Polymer Handling Guide*, a comprehensive guide on the safety, health, first aid measures, toxicology and storage of its acrylic polymer emulsions. Please contact your local sales representative or sales office to obtain a copy.

In addition, specific inquiries on these issues, including bulk storage and handling considerations, may be directed to your Dow technical representative or customer service supervisor.

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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