

TECHNICAL DATA SHEET

18-9817 Acrylic Resin Dispersion

INTRODUCTION

18-9817 Acrylic Resin Dispersion is a medium-high molecular weight acrylic resin dispersed to 42% NVM in a 75/14/6/5 blend of water/ 2propoxyethanol/ xylene/ triethylamine. It is designed to be used in a variety of waterborne, one-component and two-component, architectural, industrial maintenance, and industrial baking finishes.

The primary use of 18-9817 Acrylic Resin Dispersion is in waterborne two-component, air dry systems with liquid epoxy resin or liquid epoxy resin dispersions. Such systems typically utilize a 75/25 combining ratio (based on NVM weights) of acrylic/epoxy. The liquid epoxy component can be modified with up to 25% (based on NVM weight) of an Aliphatic Epoxy Diluent such as Heloxy 8 to improve gloss and further reduce system viscosity.

The 75/25 combining ratio of acrylic/epoxy can be adjusted somewhat to enhance certain film properties. Lower levels of epoxy resin improve U.V. resistance, while higher levels of epoxy resin will improve solvent, chemical, and alkali resistance. High performance primers will require PVC levels below 30% and should utilize higher levels of epoxy resin.

Using the above guidelines, 18-9817 Acrylic Resin Dispersion can be formulated into a variety of waterborne, two-component finishes exhibiting rapid air dry, excellent gloss, good gloss retention (superior to conventional medium oil alkyd finishes), adhesion to damp substrates, and excellent water resistance.

STORAGE & PRECAUTIONS

18-9817 Acrylic Resin Dispersion contains materials which may cause eye, skin and respiratory tract irritation. This product must be handled with extreme care and in strict adherence to good industrial hygiene practices.

The information contained herein is based on data believed by Peninsula Polymers to be accurate. However, we do not assume any liability for the accuracy of this information. All such information is used at the customer's own risk since conditions of use are beyond our control and responsibility. All materials may present unknown health hazard, and the user is responsible for meeting all applicable safety, health, and environmental standards. Determination of suitability of any information or product for an intended end use, with respect to feasibility and / or patent infringement, is the sole responsibility of the user. Read the Material Safety Data Sheet before using this product.

HIGHLIGHTS

- Waterborne.
- Low V.O.C.'s.
- Excellent gloss.
- Very good weatherability.
- Good general resistance to water, stains, chemicals.
- Very low odor.
- Versatile; air dry, force dry, bake.

SUGGESTED USES

- Institutional wall, ceiling finishes.
- Masonry wall finishes.
- Implement finishes.
- Steel structure (storage tanks, etc.) finishes.
- Safety striping.
- Baking industrial finishes crosslinked with amino-type resins.
- Coil coating primers.
- Container and drum linings.
- Low V.O.C. industrial baking finishes.

CHARACTERISTICS	TYPICAL VALUE
Solids (% NVM)	42 %
Solvents	water, 2-propoxyethanol, xylene, triethylamine
Viscosity (cps)	5,000
pH	8.6
Weight/Gallon	8.60
Appearance	milky