

TECHNICAL DATA SHEET

30-9425 Acrylic Emulsion

INTRODUCTION

30-9425 Acrylic Emulsion is a high molecular weight acrylic copolymer supplied at 50% NVM, emulsified in water. This specialty emulsion is solvent-free and has excellent U.V. resistance, flexibility/elongation, and moisture barrier characteristics.

The very small particle size (<0.2 micron) of 30-9425 Acrylic Emulsion allows for both highly elastomeric properties (up to 300% elongation) and excellent water barrier characteristics.

30-9425 Acrylic Emulsion has very good pigment "wetting" characteristics and is "shear stable". Pigment volume concentrations (PVC's) up to 80% are possible; allowing the formulation of both conventional thin film coatings and high film build mastics and putties.

Typical formulations using 30-9425 Acrylic Emulsion are prepared by grinding pigments, defoamers, surfactants, "flash rust" inhibitors, etc. in water. The letdown materials would include the emulsion resin and coalescing solvent(s) with final pH and viscosity adjustments made with ammonia and water, respectively.

An excellent coalescing solvent blend for 30-9425 Acrylic Emulsion is a 50/50 blend of Texanol / mineral spirits. Coalescent solvent(s) demand is approximately 5% (based on emulsion NVM). Freeze/thaw stability is improved using conventional glycols, such as ethylene glycol, propylene glycol, etc.

PRECAUTIONS

30-9425 Acrylic Emulsion 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.

TYPICAL PROPERTIES

Appearance	Milky
Solvent	Water
Viscosity (KU)	95 (slightly thixotropic)
pH	7.5
Weight lbs./gallon	8.5
Tg (°C)	2
MFFT (°C)	18 – 23°C theo.

HIGHLIGHTS

- Excellent elongation (300%).
- Excellent water barrier properties.
- Very good weatherability.
- Excellent pigment "wetting".
- Very good adhesion.
- Good general resistance properties.

SUGGESTED USES

- Masonry wall finishes.
- Concrete floor sealers, coatings.
- Concrete curing compounds.
- Mastics and putties.
- Automotive underbody chip resistant and corrosion resistant coatings.
- Truck bed liners.
- Water barrier coatings.
- Roof coatings (galvanized, concrete, asphaltic).
- Sound proof coatings (>40 mils, filled with polystyrene beads).
- Joint filling compounds.
- Secondary containment coatings.