

TECHNICAL DATA SHEET

13-5015 Epoxy Ester Emulsion

INTRODUCTION

PPI 13-5015 Epoxy Ester Emulsion is a long oil epoxy ester emulsion supplied at 44% NVM in a blend of water, aromatic 100, propoxy propanol, xylene, and aminomethyl propanol. It is designed to be used as a modifier resin in polyvinyl acetate emulsions and thermoplastic latex resins. The incorporation of PPI 13-5015 Epoxy Ester Emulsions at modifier level into these resins will yield coatings with greater hardness and wear resistance, reduced water and stain development, and enhanced corrosion resistance. Also, adhesion to old, chalky painted surfaces is improved.

PPI 13-5015 Epoxy Ester Emulsion is suggested for use as a modifier resin only in emulsion-type coatings. Suggested use level is 10-30% based on total vehicle solids. To improve handling characteristics and manufacturing efficiencies, PPI 13-5015 Epoxy Ester Emulsion is designed for convenient water dilution to lower the initial viscosity.

Because this epoxy ester emulsion dries by oxidation, the addition of metallic driers is necessary. Non-water dispersible (surfactant free) metallic driers are recommended; such as, cobalt and zink (used at levels of 0.06% and 0.15%, respectively, on resin solids).

Metallic driers should be incorporated into PPI 13-5015 Epoxy Ester Emulsion under excellent agitation and given a twelve (12) hour induction period. The pre-mixed epoxy ester emulsion/drier combination can then be stored for later use in the final let-down phase of various latex coatings formulations. Do not add during the pigment dispersion because PPI 13-5015 will not tolerate the high shear involved in pigment grinding.

CHARACTERISTICS	TYPICAL VALUE
Oil Type	proprietary
Solvents	water, aromatic 100, propoxy propanol, xylene, aminomethyl propanol (68/18/9/4/1)
Viscosity (cps)	7,000
pH	9.5
Lbs./Gallon	8.20
Appearance; Color	Milky; amber
% NVM	44.0

HIGHLIGHTS

(Used as a modifier in emulsion-type coatings)

- Broad compatibility.
- Improved hardness, wear resistance.
- Good adhesion to old, chalky surfaces.
- Good general resistance to water, stains, gasoline.

SUGGESTED USES

(Used as a modifier in emulsion-type coatings)

- General architectural finishes.
- Structural masonry finishes.
- Concrete floor sealers.
- Light-duty maintenance finishes.

PRECAUTIONS

PPI 13-5015 Epoxy Ester Emulsion contains materials which may cause eye, skin and respiratory track irritation. This product must be handled with extreme caution and in strict adherence to good industrial hygiene practices.