

## TECHNICAL DATA SHEET

### 14-9051 Modified Epoxy Resin Dispersion

#### INTRODUCTION

14-9051 Modified Epoxy Resin Dispersion is a high molecular weight epoxy resin modified by reaction with phosphoric acid and dispersed to 43 % NVM in a blend of water/diethylene glycol monobutyl ether/ triethylamine. It is the dispersion version of PPI 14-9050 Modified Epoxy Resin Solution.

14-9051 Modified Epoxy Resin Dispersion can be used in a variety of waterborne, heat cured, industrial baking finishes crosslinked with urea-formaldehyde, melamine-formaldehyde, and/or phenolic resins. Properly formulated PPI 14-9051 Modified Epoxy Resin Dispersion will yield baking finishes with significant improvements in adhesion (especially on aluminum) and film flexibility/formability, with no loss of reactivity, versus "conventional" high molecular weight epoxy resin dispersions.

14-9051 Modified Epoxy Resin Dispersion allows the formulator a wide latitude in formulating a variety of low V.O.C. baking finishes for those applications requiring compliance systems. Formulations in the range of 1.80 lbs./gal. V.O.C. are possible with 14-9051 Modified Epoxy Resin Dispersion.

#### HIGHLIGHTS

- Waterborne.
- Low V.O.C.'s
- Improved adhesion.
- Improved flexibility.
- Improved formability.
- Ingredients listed on FDA 175.300, b3

#### SUGGESTED USES

- Coil coating primers.
- Container and drum linings.
- Low V.O.C. industrial baking finishes.

CHARACTERISTICS	TYPICAL VALUE
Solids	42 – 44 %
Solvents	water, diethylene glycol monobutyl ether, triethylamine (82/14/4)
Viscosity (cps)	8,000 – 20,000
pH	9.5 – 10.5
Weight/Gallon	8.6 – 8.9
Appearance	milky

#### STORAGE & PRECAUTIONS:

14-9051, should be kept in sealed, air tight containers away from extremes in temperatures.

14-9051 Modified Epoxy 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.