

## TECHNICAL DATA SHEET

### 14-9050 Modified Epoxy Resin Solution

#### INTRODUCTION

PPI 14-9050 Modified Epoxy Resin Solution is a high molecular weight epoxy resin modified by reaction with phosphoric acid and supplied at 50% NVM in 2-butoxyethanol. The phosphate ester groups offer acid catalysis during heat conversion and anionic sites for water reducibility; allowing the formulation of a variety of solventborne and waterborne industrial baking finishes crosslinked with urea-formaldehyde, melamine-formaldehyde and/or phenolic resins.

Properly formulated, PPI 14-9050 Modified Epoxy Resin Solution 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 solutions.

PPI 14-9050 Modified Epoxy Resin Solution is suitable for use in both organo-soluble and waterborne systems.

PPI 14-9050 Modified Epoxy Resin Solution is also available dispersed in a 82/14/4 blend of water/ diethylene glycol monobutyl ether/triethylamine. See PPI 14-9051 technical bulletin for more information.

#### TYPICAL PROPERTIES

Viscosity (cps.)	35,000
Red Viscosity (G-H)	Z2 @40% (2 butoxyethanol)
Appearance	Clear, amber
Color (G-H)	4
Acid	16
%NVM	50
Lbs./Gal.	8.65
Solvent	2-butoxyethanol (with trace of water)

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.

#### SUGGESTED USES

- Coil coating primers.
- Container and drum linings.
- Industrial baking finishes.

#### HIGHLIGHTS

- Improved adhesion.
- Improved flexibility.
- Improved formability.
- Reducible in solvents or water.
- Ingredients listed on FDA 175.300, b3

#### PRECAUTIONS

PPI 14-9050 Modified Epoxy Resin Solution 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.

Before using it or any other products referred to in this bulletin, consult the applicable Material Safety Data Sheets for appropriate handling procedures and protective equipment.