

TECHNICAL DATA SHEET

14-7105 Epoxy Resin Solution

INTRODUCTION

PPI 14-7105 Modified Epoxy Resin Solution is an intermediate molecular weight epoxy resin modified by reaction with phosphoric acid and supplied at 50% NVM in methoxypropyl acetate and 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. Air dry is achievable with isocyanates.

Properly formulated, PPI 14-7105 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" intermediate molecular weight epoxy resin solutions.

PPI 14-7105 Modified Epoxy Resin Solution is suitable for use in both organo-soluble and waterborne systems.

PPI 14-7105 Modified Epoxy Resin Solution is also available in straight 2-butoxyethanol. See PPI 14-7104 technical bulletin for more information.

SUGGESTED USES

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

CHARACTERISTICS	TYPICAL VALUE
Appearance	Clear Amber
Solids % NVM	49-51
Viscosity (G-H)	Z4-Z6
Red Viscosity (G-H)	X-Z @ 40% (2-butoxyethanol)
Acid	25 typical
Lbs./Gallon	8.9
Solvent	(2-butoxyethanol)-28% Methoxypropyl acetate-72% (with trace of water)

HIGHLIGHTS

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

PRECAUTIONS

PPI 14-7105 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.