



Technical Data Sheet

MATERIAL:	Phenoxy resin
CATALOG NUMBER:	045A
CAS NUMBER:	25068-38-6
DESCRIPTION:	Copolymer of bisphenol-A and epichlorohydrin
FORMULA:	$(C_{15}H_{14}O \cdot C_3H_6O_2)_x$

TYPICAL PROPERTIES:

Appearance:	Pellets
Approx Mw:	50,000 [GPC]
Density:	1.18 (23°C)
Softening point:	180°C
Tg:	100°C
Viscosity:	500cp (20% in cyclohexanone)
Solubility:	Cellosolve acetate, MEK, THF

GENERAL INFORMATION:

Phenoxy resin is a high molecular weight thermoplastic material supplied in the form of clear, cylindrical pellets. It is made of bisphenol-A and epichlorohydrin. Phenoxy resins are recommended for coating applications requiring excellent toughness, flexibility, adhesion and chemical resistance. Typical applications include: binders for zinc-rich primers for maintenance coatings on steel; shop-coat primers that may be welded without removing the coating; coating film, tape, etc.; coil coating primers adhering to many types of pretreated metals, for food containers as sole binder or with phenolics (have FDA acceptability); thermoset container coatings crosslinked with melamines and also with urethanes; phenoxy zinc dust pipe dopes; hot melt and solution applied adhesives.

STRUCTURE: