



## Technical Data Sheet

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

**TYPICAL PROPERTIES:**

Appearance:	Pellets
Approx Mw:	50,000 [GPC]
Density:	1.18 (23°C)
Softening point:	180°C
Tg:	80°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:**