Phenoxy LER-HB

USE

Gabriel Phenoxy LER™-HB is a 100% NV liquid Bisphenol A type epoxy resin having a 10% modification with low molecular weight Phenoxy PK™HB. Phenoxy (polyhydroxyether) resins are tough and ductile thermoplastic amorphous polymers having excellent thermal stability, as well as cohesive and adhesive strength.

Phenoxy LER-HB combines the reactivity of a standard liquid epoxy resin and the toughening of phenoxy resin in one package for use in formulating composites, coatings, inks, and adhesives.

LER-HB can be further modified with liquid epoxy resins to provide for lower levels of contained phenoxy resin. Reactive diluents such as glycidyl ethers, and solvents such as benzyl alcohol and propylene carbonate, as well as other epoxy modifying agents can also be added to LER-HB.

Single-package epoxy formulations containing LER-HB and latent hardeners such as dicyandiamide will yield improved toughness and adhesive strength when properly cured on many substrates including steel, aluminum, glass and carbon fibers, and plastics such as nylon and polyester (PET).

TYPICAL APPLICATIONS

- Latent Cure Adhesives and Sealants
- Two Component Epoxy Coatings
- Inks
- Epoxy Based Composites
- Epoxy Based Pre-pregs
Phenoxy LER-HB (cont.)

**Typical Properties**
- Solids, %: 100
- Viscosity, cP Brookfield, @ 40 °C: 20,000 – 50,000
- Epoxy Equivalent Weight (g/equiv.): 202-214
- Color (Gardner, max.): 2

**Regulatory Status**
TSCA (USA), DSL (Canada), PICCS (Philippines), AICS (Australia), ENCS/MITI (Japan), IECSC (China). Phenoxy LER-HB is not polymer exempt in Europe.

**Packaging, Storage and Handling**
Gabriel Phenoxy LER™-HB is sold in 55 gallon drums containing 500 pounds (225 kg) net weight drums. This resin may increase in viscosity with time and has a limited shelf life of approximately 10-12 months from production date if stored at normal conditions. LER-HB may be stored at 140 to 155°F for short periods of time to permit ease of transfer and pumping.

Consult the product SDS for additional information on properties, hazards, and handling.

**Manufacturing Location**
Rock Hill, South Carolina, USA.