

An Emerald Performance Materials Company

ERISYS® GE-61

Sorbitol Glycidyl Ether**Biobased Aliphatic Polyfunctional Epoxy Resin****CAS NO. 68412-01-1**

DESCRIPTION

ERISYS GE-61 is a water soluble multifunctional epoxy resin. This resin will impart both higher reactivity and crosslink density to waterborne, solventborne and solvent-free epoxy resin, acid functional polyurethane and acrylic resin formulations for improved chemical resistance in light stable coatings and flexible adhesives. It can also be used for making waterborne systems without the use of surfactants.

APPLICATIONS

- Crosslinker for Water Based, Solventborne Acrylic and Polyurethane Resins
- Acceleration of Cure in Epoxy Resin Formulation
- Fibre Sizing
- Paper Wet Strength Improvement
- Light Stable Outdoor Coatings
- Biobased Composite Raw Materials

SHELF LIFE

One year from date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity.

TYPICAL PROPERTIES

Appearance	Clear, Clean
Viscosity @ 25°C, cps	4000-7000
Epoxide Equivalent Weight, g/eq	160-195
Gardner Color, max	3
Water solubility	>95%

HEALTH & SAFETY PRECAUTIONS

Refer to **CVC Thermoset Specialties** Safety Data Sheet on ERISYS GE-61 for safety and health information. The SDS is revised as new data becomes available.

PACKAGING & AVAILABILITY

ERISYS GE-61 is available in 55 gal. non-returnable steel drums (net weight 480 lbs.) and 5 gal. plastic pails (45 lbs. net). Bulk shipments are available with adequate lead-time. Drum inventory is available at most CVC regional warehouses. Check with your local sales representative for the shipping location nearest you.

FORMULATION PROPERTIES
Acceleration of cure in epoxy formulation

	Formulation 1	Formulation 2	Formulation 3
Epalloy® 5000	100	85	70
Erisys GE-61	0	15	30
Evonik Ancamine® 1922A Curing Agent	25.0	25.7	26.5
Gel time, 100 gm mass, min	350	90	35
Mechanical property (Cured for 24 hrs/RT and 80°C/3hrs)			
Tensile strength, psi	4588	4139	3400
Flexural strength, psi	5673	5429	7015
Compressive strength, psi	1095	1150	1204

DISCLAIMER

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