



CVC Thermoset Specialties

We Offer

- Products that deliver enhanced performance
- Application and technology expertise
- North American ISO-certified facilities
- Global service with regional distribution partners

Our Legacy

CVC Thermoset Specialties' RLP Products are a unique, proprietary technology originally developed by BFGoodrich, which enhance performance in a wide array of technically challenging end-uses around the world. The product family had been sold for many decades under the Hycar® tradename by predecessor corporations – BFGoodrich, Noveon and Lubrizol. Following the formation of Emerald Performance Materials in 2006, the products were rebranded as Hypro® Reactive Liquid Polymers.

Prior to its acquisition by Emerald Performance Materials in 2008, CVC Specialty Chemicals had been creating and manufacturing specialty epoxy resins since 1982. Over the years, the company expanded its product offerings to coatings and adhesive formulators with the acquisition of the specialty epoxy resin line of CL Industries (Georgetown, IL) and substituted urea accelerators from Omicron Chemical. Manufacturing and R&D capabilities were enhanced by the 1995 purchase and subsequent expansions of the Akzo Chemical plant in Maple Shade, NJ.

CVC Thermoset Specialty Product Lines

- Specialty Epoxy Resins
- Reactive Liquid Polymers
- Elastomer-Modified Epoxy Resins
- Epoxy Functional Reactive Modifiers
- Curing Agents, Catalysts and Accelerators

EPALLOY® Specialty Epoxy Resins

Improved chemical resistance, thermal performance, modulus, cure speed, and UV stability over other standard resins for coatings, composite, and adhesive applications. Technologies include Epoxidized Phenol Novolacs, Resorcinol Modified Novolacs, Bis A Modified and Cycloaliphatic Epoxy Resins.



An Emerald Performance Materials Company

Hypro® Reactive Liquid Polymers

Addition of our innovative Hypro® Reactive Liquid Polymers (RLP) to your thermoset resin formulation will significantly enhance performance such as fracture toughness, low temperature mechanical properties, impact/crack/chip resistance, flexibility and adhesion to difficult to adhere-to substrates. Carboxy, Amine, Epoxy, Methacrylate(Vinyl), Glycidyl Ester and Hydroxy end-functionality allows for crosslinking in a variety of systems. Ideally suited for Epoxy, Vinyl Ester, UPE Urethane and Acrylic Resin Systems. Newer low viscosity epoxy functional grades can be used for glass and carbon fiber reinforced composites.

HYPOX® Elastomer-Modified Epoxy Resins

Elastomer modification of epoxy resins is a valuable way to further enhance performance features such as: fracture toughness, peel strength, flexibility, low temperature performance, durability and adhesion to non-polar surfaces versus unmodified products. Technologies include Dimer Acid and CTBN Adducts, and Urethane Modified Epoxy Resins.

ERISYS® Epoxy Functional Reactive Modifiers

Monomers are used in epoxy formulations to reduce viscosity and improve handling, processing, and application properties of formulations. Monomers and modifiers also enhance features, such as flexibility and toughness, and maintain chemical resistance and UV stability. Chemistries included Aromatic & Aliphatic Glycidyl Ethers, Glycidyl Amine and Glycidyl Esters.

OMICURE® Curing Agents, Catalysts and Accelerators

Accelerating the cure speed and/or reducing the cure temperature are important to optimize productivity, energy use, and ultimate physical properties. We offer Dicyandiamide and Boron-Based catalysts for Latent, one-component Heat Cured Epoxy Systems. Substituted Urea catalysts help to accelerate the cure speed and reduce cure temperatures of Dicyandiamide cured formulations and help to optimize productivity, energy use, and ultimate physical properties.

Emerald Corporation

CVC Thermoset Specialties is a division of Emerald Performance Materials (EPM). EPM produces a broad portfolio of additives and polymers used in diverse consumer and industrial products around the world. Its products play a variety of roles in the products that are consumed and used every day enabling them to last longer, look, smell, taste or perform better. For more information, visit www.emeraldmaterials.com.

Product Line		Coatings					Adhesives & Sealants						Composites						Polymer Modification		Electrical / Electronic								
		Primers – Automotive and Aerospace	Powder Coatings	Flooring and Concrete Coatings	Industrial and Maintenance	Cross-linkers – Overprint Varnish and Other	Topcoat – Automotive Refinish and UV Stable	Mastics and Sound Deadening	Window Sealants	Injection Molded Structural and Pumpable Pastes	Civil Engineering – Floor Joints, Anchor Bolt	Pressure Sensitive Adhesives	Urethane Adhesives	Film Adhesives	Filament Winding – Pipes/Valves/Tanks	SMC & BMC Modification	Aerospace and Recreational Prepregs	Tooling and Stereolithography	Pultrusion	Synthetic Foam Insulation	Wind Energy – Infusion, Hand Layup, Tooling and Adhesives	Resin Infusion – Industrial and Wind	Vinyl Ester	PVC Plasti Sol Modification	Polyurethane Modification	Potting/Encapsulation	Insulating Varnish – Dip & VPI	Printed Circuit Boards	
Reactive Liquid Polymers	Hypro® CT Series RLP																												
	Hypro® AT Series RLP																												
	Hypro® VT Series RLP																												
	Hypro® ET Series RLP																												
	Hypro® LV Series RLP																												
	Hypro® HT Series RLP																												
Specialty Epoxy Resins	EPALLOY® 8000 Series – Unmodified Phenol Novolac Resins																												
	ERISYS® RN Series – Resorcinol Modified Novolacs																												
	EPALLOY® 7100 Series – Bis A Modified Novolacs Resins & Blends																												
	EPALLOY® 5000 Series – Hydrogenated Bis A Resins																												
Elastomer Modified Resins	HyPox® D-Series Dimer Acid Modified Epoxy Resins																												
	HyPox® R-Series CT Modified Epoxy Resins																												
	HyPox® U-Series Urethane Modified Epoxy Resins																												
Epoxy Functional Reactive Modifiers	ERISYS® GE 5,6,7 and 8 Series – Aliphatic Glycidyl Ethers																												
	ERISYS® GE 10 Series – Aromatic Monoglycidyl Ethers																												
	ERISYS® GE 20 Series – Aliphatic Diglycidyl Ethers																												
	ERISYS® GE 30 Series – Aliphatic Triglycidyl Ethers																												
	ERISYS® GE 60 – Sorbitol Polyglycidyl Ether																												
	ERISYS® GS Series – Glycidyl Esters																												
	ERISYS® GA Series – Glycidyl Amines																												
Curing Agents, Catalysts & Accelerators	Omicure® U Series – Substituted Urea Accelerators																												
	Omicure® DDA Series – Dicyandiamide Accelerators																												
	Omicure® B Series – Boron-based Catalysts																												

For more information on these products contact:

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