



# UNIVAR

## Composites Product List

Product Group	Type	Trade name	Supplier	Description
Resins & binders				
Resins & binders	Epoxies and Novolacs	DER, DEN	Dow Chemicals	An extensive range of epoxy products and intermediates produced at manufacturing facilities around the globe
Resins & binders	Reactive epoxy diluents	Epodil	Air Products & Chemicals Inc.	A range of reactive diluents used to lower viscosity with minimal effect on mechanical properties and chemical resistance.
Resins & binders	Epoxy vinyl ester resins	Dion	Reichhold	An extensive range of epoxy vinyl ester resins providing outstanding chemical resistance.
Resins & binders	Epoxy vinyl ester resins	Dion Impact	Reichhold	A range of epoxy vinyl ester resins offering performance improvements, improved colour and with extended shelf life.
Resins & binders	Epoxy vinyl ester resins	Hydrex	Reichhold	High performance vinyl ester resins specifically for excellent hydrolytic stability in applications such as marine or boat building.
Resins & binders	Unsaturated polyester resin	Polylite and Dion	Reichhold	An extensive range of unsaturated polyester resins providing good chemical resistance.
Resins & binders	Polyether polyol	Polyol	Various	Polyether polyol for polyurethane coatings, adhesives, sealants, elastomers and foam
Resins & binders	MDI	MDI	Various	Crude and polymeric MDI for PU coatings, adhesives, sealants, elastomers and foam.
Reinforcements				
Reinforcements	Chopped strand mat	Univar glass	Univar	Emulsion and powder bound chopped strand mats.
Reinforcements	SMC roving	Univar glass	Univar	High performance roving for sheet moulding compounds.
Reinforcements	Direct roving	Univar glass	Univar	Particularly recommended for pultrusion techniques.
Reinforcements	Spray-up roving	Univar glass	Univar	Recommended for spray up moulding of reinforced plastic products.
Reinforcements	Woven roving	Univar glass	Univar	A range of woven rovings used for their high tensile and flexural strength in laminates, mainly used for hand lay-up of large, high strength FRP products.
Reinforcements	Combo mat	Univar glass	Univar	Combo mat is a complex mat of woven roving and chopped mat.
Reinforcements	Chopped strands	Univar glass	Univar	3 mm and 6 mm chopped strands.
Reinforcements	Glass fabric	Paraglass	Parabeam	Patented 3D glass fabric
Reinforcements	Glass fabric	Paratank	Parabeam	3D glass fabric specifically recommended for tank manufacture
Reinforcements	Glass tape	Paratape	Parabeam	Bidirectional glass tape

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Curing Agents				
Curing Agents	Latent	Ajicure	Ajinomoto	Latent accelerator for heat cured epoxies.
Curing Agents	Polyamines	DEH	Dow Chemicals	A range of curing agents for epoxy resin systems including TETA, TEPA, AEP.
Curing Agents	Polyamines	Ancamine	Air Products & Chemicals Inc.	A comprehensive range of epoxy curing agents and diluents for coatings, adhesives and civil engineering applications.
Curing Agents	Polyamides	Ancamide	Air Products & Chemicals Inc.	A comprehensive range of epoxy curing agents and diluents for coatings, adhesives and civil engineering applications.
Additives				
Adhesion Promoters	Silane	DC-Z Series	Dow Corning	Organo silane adhesion promoters for organic resins onto inorganic substrates. Variety of organic reactivity for use with different resins.
Alkanolamines	DEA	Diethylamine	Dow Chemicals	Speciality amine used for pH adjustment.
Amines	DIPA (DIPLA), MIPA (MIPLA), TIPA (TIPLA)	Isopropylamines	Dow Chemicals	Used in a variety of applications to achieve basicity and buffering, also as a complexing agents, resin neutralizer, catalyst for hardening, corrosion inhibitor and resin modifier.
Amines	MEA (MELA), DEA (DELA), TEA (TELA)	Ethanolamines	Dow Chemicals	Used in many applications, for example as catalysts for polyurethane foams, concrete additive, intermediate in adhesive manufacture.
Anti sag - Anti settle	Fumed silica	Cab-o-Sil	Cabot Corporation	Fumed silica for rheological control, anti settling and anti sag. Particularly suitable for use in epoxy, polyester and vinyl ester resins.
Anti-shrink additives	Polymer	Coathylene	Dupont	Fine polymer powder used to control shrinkage and improve mechanical properties of composites. Particularly recommended for polyester SMC, BMC and pultrusion.
Anti-shrink additives	Thermoplastic polymers	Kraton	Kraton Polymers	Anti shrink additives based on styrenic block copolymers.
Defoamers	Non silicone	Axilat	Hexion	Non-silicone defoamers for all industrial applications. Wide range comprising varied carriers, FDA compliancy etc.
Defoamers	High performance air release	Sirion	SIR Industriale	A range of speciality air release agents.
Defoamers	Silicone	DC series	Dow Corning	Silicone defoamers for many applications.

Product Group	Type	Trade name	Supplier	Description
Flame retardants	Antimony based	Antimony oxide & tri-hydrate	Chemtura	Antimony products, used in combination with halogenated products, to impart excellent flame retardant properties to a wide variety of polymeric and natural materials.
Flame retardants	Bromine based	Brominated	Chemtura	Flame retardants for use in adhesives, polyurethane foams and epoxy resins.
Flame retardants	Phosphates	Kronitex, Reofos	Chemtura	Flame retardants for thermoset and thermoplastic systems, including polyurethanes and adhesives.
Flame retardants	Zinc borate	Zinc borate	Chemtura	Flame retardants and smoke suppressants for thermoset and thermoplastic systems.
Smoke suppressant	Zinc / Calcium	Kemgard	PMC Specialities	Cost effective smoke suppressant, flame retardant additives based on zinc and calcium chemistry.
Styrene suppressant	High performance additive	Sirion	SIR Industriale	Styrene suppressants recommended for use in vinyl ester and polyester resins.
Thickeners	Magnesium oxide	Magnesium oxide	Lehvoss	Magnesium oxide can be used as a rheological agent for epoxy and polyester composites.
Thickeners	Fumed silicas	Cab-o-Sil	Cabot Corporation	Fumed silica for rheological control, anti settling and anti sag.
Solvents				
Oxygenated	Ketones	Acetone, MEK, DAA, MIBK	Various	Used to aid solubilisation of resin system and to control the rate of evaporation.
Acetals	Acetals	Methylal, Ethylal, Butylal, Dioxalane	Lambiotte	Environmentally friendly solvents that are recommended as alternatives to traditional solvents such as methylene chloride and toluene.
Chlorinated	Methylene chloride	Methylene Chloride	Ineos Chlor	An effective solvent for many cleaning applications.
Pigments, Dyes & Dispersions				
Dispersions	Various polyols	Elite	Univar	A range of inorganic and organic pigment dispersions in various polyols. Other carriers are available on request.
Inorganics	Iron oxide	Iron oxide	Univar	Iron oxide pigments have high light-fastness, colour intensity, brilliance and thermal stability.
Inorganics	Titanium dioxide	Tiona 472, 568, 595 and others	Millennium	A range of titanium dioxide pigments.

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Fillers				
Fillers	Precipitated Calcium Carbonate	Winnofil	Solvay	Precipitated calcium carbonate is a widely used performance filler for many systems.
Fillers	Precipitated Calcium Carbonate	Sturcal, Calofort	Speciality Minerals	Precipitated calcium carbonate is a widely used performance filler for many systems.
Fillers	Talc	Viatalc	Viaton	Talc can be used as a filler in various composite materials.
Miscellaneous				
Monomer	Styrene	Styrene	Shell	Monomer used in epoxy vinyl ester resins and polyester resin based composites.
Release agent	Calcium stearate	Calcium stearate	Sogis	Used as release agent for eg polyester composites.
Viscosity modifier	Benzyl alcohol	Benzyl alcohol	Various	Used to lower the viscosity of epoxy formulations.
Peroxides				
Peroxides	AAP	Norpol	Univar	Acetyl acetone peroxide providing fast cure for polyester resins. Particularly recommended for RTM and continuous processes.
Peroxides	BPO	Norpol	Univar	Dibenzoyl peroxide for polyester and vinyl ester resins. Supplied in paste, suspension or water wet granules.
Peroxides	CUHP	Norpol	Univar	Cumyl hydroperoxide recommended for use with bisphenol A and Novolac vinyl ester resins.
Peroxides	MEKP	Norpol	Univar	A range of high purity methy ethyl ketone peroxides for use with polyester and vinyl ester resins. Including low gassing products for vinyl ester resins and products with a range of cure characteristics for polyester resins and gel coats.
Peroxides	TBPB	Norpol	Univar	Tertiary butyl peroxy benzoate for heat activated applications such as pultrusion, SMC and BMC.

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