

# Composites Group

## Resins & Binders

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
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	Epoxy vinyl ester resins	Derakane	Dow Chemicals	A range of epoxy vinyl ester resins offering Momentum performance improvements, cost savings and with extended shelf life.
Resins & binders	Polyether polyol	Voranols	Dow Chemicals	Polyether polyol for polyurethane coatings, adhesives, sealants, elastomers and foam
Resins & binders	MDI	Isonate	Dow Chemicals	MDI for PU coatings, adhesives, sealants, elastomers and foam.
Resins & binders	MDI	Voranate	Dow Chemicals	Polymeric MDI for PU coatings, adhesives, sealants, elastomers and foam.
Resins & binders	Unsaturated polyester resin	Sirester	SIR Industriale	An extensive range of unsaturated polyester resins.

## Reinforcements

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
Reinforcements	Chopped strand mat	Univar glass	Univar	Emulsion bound chopped strand mat.
Reinforcements	Glass fabric	Paraglass	Parabeam	3D glass fabric.
Reinforcements	Glass fabric	Paratank	Parabeam	3D glass fabric specifically recommended for tank manufacture.
Reinforcements	Glass tape	Paratape	Parabeam	Bidirectional glass tape.

## Curing Agents

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
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.
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/ Anquamide	Air Products & Chemicals Inc.	A comprehensive range of epoxy curing agents and diluents for coatings, adhesives and civil engineering applications.

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# Additives

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
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)	Isopropanolamines	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-oxidants	Phenolic, Phosphite	Lowinox, Alkanox	Great Lakes	A range of antioxidants for use in polyester and polyurethane systems.
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 epoxies.
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.
Resins & binders	Thermoplastic polymers	Kraton	Kraton Polymers	Anti shrink additives based styrenic block copolymers.
Defoamers	Non silicone	Bevaloid, Rhodoline	Rhodia	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.
Flame retardants	Antimony based	Antimony oxide & tri-hydrate	Great Lakes	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	Great Lakes	Flame retardants for use in adhesives, polyurethane foams and epoxy resins.
Flame retardants	Phosphates	Kronitex, Reofos	Great Lakes	Flame retardants for thermoset and thermoplastic systems, including polyurethanes and adhesives.
Flame retardants	Zinc borate	Zinc borate	Great Lakes	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.
UV absorbers	Benzophenone, benzotriazole, HALS	Lowilite	Great Lakes	A range of UV absorbers and light stabilisers for use in polyester and polyurethane systems.

## Solvents

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
Oxygenated	Ketones	Acetone, MEK, DAA, MIBK	Various	Used to aid solubilisation of resin system and to control the rate of evaporation.
Chlorinated	Methylene chloride	Methylene chloride	Ineos Chlor	Degreasing solvents.

## Pigments, Dyes & Dispersions

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
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.
Organics	Monoazo	Monolite	Heubach	The Monolite monoazo pigments - the standard pigments for coatings.
Organics	Phthalocyanine	Monastral	Heubach	The Monastral pigments are phthalocyanine blue and phthalocyanine green pigments. They have outstanding fastness properties in all types of systems.

## Fillers

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
Fillers	Precipitated Calcium carbonate	Winnofil/Calofort	Solvay/ Speciality Minerals	Calcium carbonate is a widely used performance filler for many systems.
Fillers	Talc	Microtalc	Omya	Talc can be used as a filler in various composite materials.

## Miscellaneous

PRODUCT GROUP	TYPE	TRADE NAME	SUPPLIER	DESCRIPTION
Monomer	Styrene	Styrene	Shell	Monomer used in epoxy vinyl ester resins and polyester resin based composites.
Mould release agent	Internal and external	Marbocote	Marbo International	A range of internal and external mould release agents for many composite applications.
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.

# Solutions for the Composites Industry

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Complete range including:

- Catalysts
- Additives
- Epoxy resins, curing agents and diluents
- Fillers
- Flame retardants
- Fumed silica
- Metal stearates
- Mould release agents
- Pigments and pigment dispersions
- Plasticisers
- Polymer modifiers
- Reinforcements
- Silanes
- Smoke suppressants
- Solvents
- Styrene
- Thermoplastic polymers
- Unsaturated polyester resins
- UV absorbers and anti oxidants
- Vinyl ester resins

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