



## allnex Composites Information Sheet

March 2017

### About Us

allnex Composites is the market leader in the manufacturing and distribution of composite materials in Australia, New Zealand and the Pacific Islands.

We are the largest and only local producer of composite resins such as unsaturated polyester and vinyl ester resins, gelcoats and flowcoats. Our materials are used in a diverse range of composite applications and products such as swimming pools, boats, truck bodies, tanks, roof sheeting, pipelines and many more. We pride ourselves on offering the region's most comprehensive product portfolio and distribution network. This is further complimented by an end-to-end service from research and product development to application advice and ongoing technical support.

Our products are manufactured in Australia, Vietnam and Indonesia, and are sold to customers in Australia, New Zealand, Fiji, Vanuatu, New Caledonia, Solomon Islands, Tonga, Samoa and Tahiti. In addition, we also nurture long-standing supply relationships with highly respected global suppliers enabling us to offer an extensive portfolio to our customers.

By listening to our customers, identifying trends in the market place, and understanding the specifics of our customers' challenges, we make sure that we undertake development activities that deliver commercially viable solutions.

### Our Story

The merger of the industry's three leading suppliers in 2011 has led to the formation of allnex Composites.

What we are today is the result of the amalgamation of Australasia's composite material pioneers: Fiberglass International (FGI), Nuplex Structural Resins (NSR) and Nupol Composites (formerly Huntsman Composites acquired in 2007).

### Our Company

Globally, allnex is a leading producer of coating resins and additives for architectural, industrial, protective, automotive and special purpose coatings and inks. We were formed in September 2016 when Allnex, formerly Cytec Industries' coating resins business, and Nuplex Industries, a global manufacturer of resins, were brought together to form the leading industrial coating resins company, allnex.

With 33 manufacturing facilities, 23 research and technology support centres and six joint ventures, the allnex group is present on four continents and serves customers in over 100 countries.

## Advantages of Fibre Reinforced Polymer (FRP) Materials

Items manufactured with FRP, commonly referred to as composite materials are used in a wide variety of applications due to their inherent characteristics and adaptability. This enables architects and engineers a design freedom previously not achievable with traditional materials such as concrete, steel or aluminium.

The high strength-to-weight ratio of composite materials often allows lighter weight solutions. This combined with excellent durability, high degree of design flexibility and multitude of aesthetic finishes presents opportunities only limited by imagination.

Composite materials can be adapted to meet the demands of harsh environments requiring high chemical, corrosion and weather resistance. They also fulfil the demands of highly engineered parts by offering stiffness, load bearing capabilities, fatigue resistance and impact strength.

Innovative and clever manufacturing allows very large parts to be made in one step. This significantly reduces production times, installation and labour costs. In addition, composite materials are radio translucent, non-magnetic, and non-conductive and have excellent thermal insulation properties.

## Application of Our Products



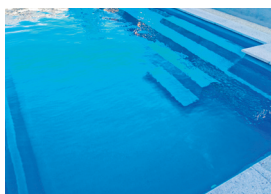
### CONSTRUCTION

Our customers make products for numerous construction applications, including roof sheeting, bathroom ware, facades, electrical cross-arms, power poles, building refurbishments, seismic reinforcement and even sculptures.



### INFRASTRUCTURE

Composite materials are suitable for bridges, pipes, chemical storage tanks, scrubbers, large-scale water treatment and containment plants, fume cabinets, sewer relining and much more.



### LEISURE

Our products are tailored for a wide range of leisure applications. From stable but lightweight structures used in sporting goods, to durable and attractive laminates ideal for swimming pools where high cosmetic appeal is just as important as functionality.



### MARINE

We produce solutions for ocean going super yachts, surf skis and everything in between for the marine industry.



### MINING

We continually work on developing solutions for the mining sector where composite materials are used in mining operations.



### TRANSPORT

The inherent light weight and low-drag, aerodynamic properties of composite materials continue to contribute to higher fuel efficiency and reduced CO<sub>2</sub> emissions whilst delivering an impeccable finish.

## Thousands of Applications Many Solutions

### PROCESSES

To meet all these demands there are many different processes available to manufacture composite materials

- CENTRIFUGAL MOULDING
- FILAMENT WINDING
- HAND LAY-UP
- HOT MOULDING
- INFUSION
- LITE-RTM
- PULTRUSION
- RESIN TRANSFER MOULDING
- SPRAY-UP
- VACUUM BAGGING
- VACUUM FORM ACRYLIC

## Our Portfolio

We produce and supply materials of the highest quality to ensure that our customers have an efficient and problem-free manufacturing process. This guarantees finished products that have the strength, appearance, and durability to consistently satisfy the end users.

|                                |   |
|--------------------------------|---|
| Accessories                    | Extensive range of manufacturing accessories such as brushes, rollers, sandpaper and discs, ice-cream containers, tape, gloves, gunk bags, catalyst dispensers, mixers, nozzles, gunwale rubber, chopper blades, PPE, infusion consumables and much more.   |
| Adhesives                      | Bonding solutions covered with Plexus™ & SCIGRIP™ methyl methacrylate (MMA) structural adhesives, modified silyl polymer (MSP) and epoxy adhesives.   |
| Catalysts                      | Organic peroxide initiator range targeted to suit unsaturated polyester, vinyl ester and epoxy resins. We stock a range of Benox™, Butanox™, Cadox™, Curox™, Norox™ and Perkadox™ brands.   |
| Chemicals                      | Acetone, styrene monomer, methyl methacrylate and various solvents.   |
| Core Materials                 | Reduce weight and increase stiffness by utilising core material in laminate design. Polypropylene honeycomb, urethane and structural PVC sheets in a range of thicknesses, density and finishes. Soric™ and Coremat™ available for both open and closed mould respectively.   |
| Fillers                        | Reduce weight and/or add bulk by utilising filler materials. Q-Cel® hollow microspheres, Phenoset® microspheres, talc, cotton flock, hydrophilic & hydrophobic fumed silica.  |
| Gelcoats and Flowcoats         | Aquaguard™ gelcoats and flowcoats have long been the market leader in ANZ. This flagship product with proven history of exceptional chemical and UV resistance is exported all over the world including the USA and made under licence in Europe. We also locally manufacture Nutech™ Iso-NPG systems; high performance Ultratec Fire Retardant and Tooling systems; and Fibretech, the leading pool refurbishment system in Australia.     |
| Mould Preparation              | Wide range of TR Industries mould preparation and release products for both FRP composite, and polymer concrete parts. These are suitable for open & closed moulding, filament winding and pultrusion. We also stock 3M and Meguiars products.  |
| Polyurethanes                  | Pour foam and finished sheets available.  |
| Putties                        | allnex has a vast range of putties specifically formulated using either vinyl ester or polyester resins for a wide range of applications such as bonding, bedding, fairing, gap filling and surface finishing. Products include Probond, Reobond, K-Lite and Easysand Light Weight Putty.   |
| Reinforcements                 | A variety of reinforcement materials available to suit many engineering requirements and manufacturing processes. These include glass rovings, chopped strand mat, chopped strands, woven and stitched fabrics, AR Glass, high performance carbon and aramid fibres, tissue and Aerialite™ surfboard cloth.   |
| Resins – Epoxy                 | Our general purpose epoxy resin has stood the test of time. It is versatile and offers excellent corrosion resistance, high strength-to-weight ratio, dimensional stability and adhesion properties.  |
| Resins - Specialty             | Our diverse range includes products for every application including CIPP systems for pipeline rehabilitation, roof sheeting and architectural facades for heritage listed buildings, polymer concrete for drainage channels, bases for precision tooling lathes and railway sleepers, materials for radomes, avionics and UV cured systems for body armour. No matter what the application we can find the right product to fit your needs. |
| Resins – Unsaturated Polyester | The Polyplex range of UPE's includes ortho, iso, terephthalic, DCPD and urethane modified resins tailored in design for general fabrication, fire retardant, corrosion, transport, infrastructure and engineering applications across a vast array of industries.   |
| Resins – Vinyl Ester           | Our wide range includes Derakane™ high performance products, locally manufactured Hetron™, SPV and Vipel™ materials. All used extensively in corrosion applications to manufacture tanks, pipes and infrastructure where durability and performance really matter.  |
| Rubber Moulding                | In New Zealand only, we stock Barnes products for sculpting, moulding and casting supplies including a huge range of silicone, resin, latex, clay and accessories.  |

## Our Represented Brands

- Polyplex™ and Aropol™ unsaturated polyester resins
- Vipel™ and Hetron™ epoxy vinyl ester resins
- Aquaguard™ and Nutech™ gelcoats & flowcoats
- Ultratec™ specialty resins and gelcoats

## Our Key Global Suppliers

- Akzo Nobel
- AOC
- Ashland Performance Materials
- BGF Industries (Aerialite™)
- Colan Products
- Gurit
- IPS Corporation (SCIGRIP™)
- ITW Polymer Adhesives (Plexus™)
- Jushi Group
- Lantor
- Owens Corning
- Nippon Electric Glass (NEG)
- Precision Fabrics
- Qingdao Polycore
- Regina Glass Fibre
- Saertex
- Toray
- TR Industries
- United Initiators

## Contact Us

### AUSTRALIA

Telephone: 1800 789 607

### NEW ZEALAND

Telephone: 0800 803 001



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