GREENPOXY® BIO-BASED SYSTEMS
SUSTAINABLE MATERIALS WITH UNCOMPROMISING PERFORMANCE

It’s all in the Chemistry
www.sicomin.com
With the world continuing to need products that are less harmful to the environment, Sicomin believes strongly in the development of sustainable composite materials and continues to invest considerable resource and expertise into developing new, bio-based systems derived from renewable resources.

Sicomin’s GreenPoxy® range, developed and manufactured in France, offers the largest range of next generation bio-based epoxy resin systems on the market today, some produced with up to 51% of bio-carbon content deriving from plant and vegetable origin (ASTM D6866).

Matching the performance of non-bio systems, GreenPoxy® has created a wide following and is now used in a variety of markets such as marine structures, water and winter board sports, construction, automotive and electric vehicles. With its recently expanded manufacturing capability, Sicomin can provide commercial scale capacity for the largest of industrial applications with no performance compromised.
**GREENPOXY® 28**

A bio-based epoxy resin aimed specifically at HP-RTM processing techniques.

- Up to 28% bio-based carbon content*
- Fast cycle, low toxicity, third generation bio-based formulation.
- Can be used for both high performance structural parts and aesthetic carbon fibre components.
- Optimised for fast production cycle times and superior mechanical performance.
- Available in industrial quantities typically required by Automotive OEM’s.

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**SGI 128**

A bio friendly intumescent gelcoat.

- Up to 38% bio-based carbon content.
- Exceptional fire performance.
- Halogen free with low smoke toxicity.
- Hardwearing weatherproofed finish for exterior applications.
- Available in industrial volumes.
- Tested to EN 13501 (EUROCLASS B-S1-d0) and ASTM E84 (Class A).

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"Sicomin’s GreenPoxy® technology delivers supreme mechanical performance whilst enabling sustainable manufacturing practices.”

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“Bio-based carbon content dependent on hardener choice.
GREENPOXY® 33
A bio solution for compression moulding.
- Up to 35% bio-based carbon content.
- A high-performance bio epoxy resin.
- Fast curing, clear laminate.
- High mechanical properties.
- Excellent wetting out properties resulting in a low resin consumption.

INFUGREEN 810
A bio solution for Infusion
- Up to 38% bio-based carbon content.
- Very low viscosity clear system for infusion of small to very large parts, including very thick laminates.
- Room temperature infusion system.
- Choice of hardeners to adjust cure times.
Ketos – based in Aix Les Bains near the beautiful Lake Bourget – is the foil brand developed by the team behind 3G Composites, who have been manufacturing advanced composite components for leading sporting brands such as Salomon, Beuchat, Mavic and Sup’Air for more than 30 years. Sicomin has been supplying the marine industry’s innovators and pioneers for more than 35 years, manufacturing high-performance epoxy resins, adhesives and coating systems for stronger, lighter and faster marine craft around the world as the development of Foiling – where a board or boat flies above the water supported by hydrofoils – continues, Sicomin work alongside some of the sport’s most innovative artisans, providing the composite strength within these spectacular flying machines.

Ketos – the largest range of bio-based systems on the market.

**SURF CLEAR EVO**

A bio solution for hand laminating and coating

- Up to 37% bio-based carbon content.
- Provides the highest UV resistance of all the Sicomin clear resins.
- Specifically developed for the construction of surf and windsurf boards.
- High gloss appearance for transparent laminates, clear carbon parts, wooden components, and decorative goods.
- Self-levelling, sandable and scratch resistant.

**GREENPOXY® 56**

Multipurpose bio solution.

- Up to 51% bio-based carbon content.
- Achieves tough and hard wearing gloss laminates.
- Suitable for laminating, injection moulding, filament winding, press processes and casting.
- Guaranteed supply in industrial tonnages.

Innovative formulations match the performance of non-bio systems.
New bio-foaming epoxy.

- Up to 37% bio-based carbon content.
- Allows 'in situ' production of a shaped low-density epoxy foam core.
- Two-part system.
- Offers good adhesion to a variety of materials and low water absorption.
- Particularly suited to foam cored components with lightweight glass, carbon or natural fibre laminates.

“Our goal is to really get people excited about Natural Fibre Composites. Sicomin’s GreenPoxy® products help us create sustainable composites with no compromise in performance or appearance.”

GREENBOATS®
ENATA CHOOSES SICOMIN EPOXIES FOR UNIQUE HIGH PERFORMANCE FOILER

The ENATA FOILER is a radical evolution in motor yacht design with its unique hydro-foiling system effortlessly flying the yacht 1.5m above the waves. Stable and smooth in flight, ENATA has designed the FOILER to deliver the comfort of a luxury yacht with the performance and handling of a super car.

Its four patented foils enable the hull to fly 1.5m above the water, providing a comfortable ride at full speed and allowing the FOILER to make smooth and speedy turns, much like you'd expect from a supercar.

The propulsion system comprises twin 300HP diesel/electric hybrid engines, which work with custom electric torpedoes, providing different fuel configuration options when driving, and working with the foils to provide the impressive list at up to 40 knots and in varying weather conditions.

The clear construction choice for the FOILER was infused carbon fibre and epoxy resin. Carbon fibre provides high strength and stiffness, particularly required for the four foils, and enables the construction of a lower weight hull allowing full list to be achieved with the hybrid drive system. This performance wouldn't be possible with a typical heavier E-glass structure. ENATA chose Sicomin’s advanced epoxy infusion and laminating systems for the hull and structure of the Foiler, combining excellent mechanical performance with optimised processing characteristics.

Sicomin’s SR8100 epoxy system was used, having been specially formulated for resin transfer processes such as injection or infusion. The system has a very low viscosity at ambient temperature and can be used with different hardeners for the moulding of small or large parts, with fast demoulding time. In addition, the Germanischer Lloyd certification approval for the SR8100 resin system provided ENATA with further validation of the quality and consistency of Sicomin’s products.