



# SPORTS AND RECREATION

EPOXY RESIN SYSTEMS FOR SPORTS AND RECREATION

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It's all in the Chemistry

[www.sicommin.com](http://www.sicommin.com)

Strength, weight reduction and durability are critical for the manufacturers of high performance sporting components as their products must endure the toughest impacts and most demanding environments.

Sicomin supplies many of the world's leading ski, snow, windsurfing, surf, SUP and kite board manufacturers, enhancing productivity and delivering exceptional performance levels in the equipment they produce.

Our range of epoxies provide remarkable mechanical and fatigue strengths in a range of applications and are used extensively by many of Europe and Asia's top sports and leisure manufacturers.

Sicomin's market leading range of GreenPoxy® bio-based epoxy systems also allows manufacturers to create more sustainable products, minimizing environmental effects with no compromise in the performance or rider experience.





www.sicomin.com/  
bio-based-epoxy



## 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.



READ CASE STUDY



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



## GREENPOXY® 56

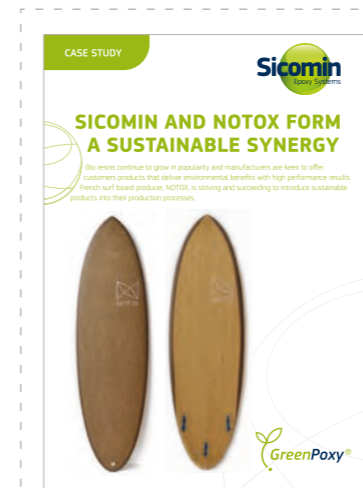


www.sicomin.com/  
bio-based-epoxy



Multipurpose bio epoxy 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.



READ CASE STUDY

“Providing surfers with boards that match their core values is our aim. We are constantly striving to produce the most eco-responsible and sustainable products possible and through our technological synergy with Sicomin we have achieved this.” NOTOX.



# Innovative Bio Formulations Match the Performance of Non-Bio Systems.

## 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.

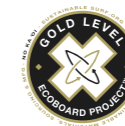


VIEW GREENPOXY® 28 DATASHEET

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## SURF CLEAR EVO

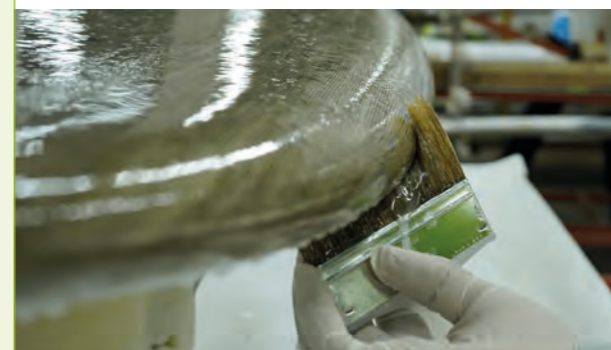


A bio solution for hand laminating and coating.

- 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.



VIEW SURF CLEAR EVO DATASHEET



**CASE STUDY**



**KETOS ALL CARBON KITE FOILS AND BOARDS WITH SICOMIN EPOXY SOLUTIONS**

Ketos, leader in kite foil boards, has been supported by Sicomin's innovative and powerful epoxy resin systems for over 15 years, manufacturing high-performance epoxy resin, adhesives and coating systems for stronger, lighter and faster marine craft around the world. As the development of kiteboarding - which is based to a large extent on the use of carbon fibre - continues, Sicomin works alongside some of the sport's most innovative athletes, providing the composite strength with their spectacular flying machines.

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**READ CASE STUDY**

# SR1280

Epoxy system for hand laminating, infusion, tooling and casting.

- Choice of variety hardeners to adjust reactivity.

 **VIEW SR1280 DATASHEET**

[sicomin.com/processes/laminating](http://sicomin.com/processes/laminating)



**CASE STUDY**

**SONNTAG FINS CONFIRM GREENPOXY® 33 AS BEST SOLUTION FOR CUSTOM CARBON WINDSURF FINS**

Sicomin's latest marine collaboration sees its industry leading GreenPoxy® 33 based epoxy resin used for custom carbon fibre windsurf fins, combining speed, rigidity, performance and sustainability for some of the fastest sailors afloat.

Being Sonntags owner and founder of Sonntags Fins, he has been involved with windsurfing since the 80s but decided to launch the company's custom carbon fibre windsurf fin brand around 12 years ago. Using the latest composite materials, new resin technology, CNC machined tooling and test equipment, a fully integrated software package for simulation, design, calculation and testing, Sonntags has taken the design to performance and consistency.

Targeted at amateur sailors, racers and speed sailors, even Sonntags Fins is a custom-made product, tailored specifically to the user based on an discussion about their riding style, fin physical size and weight, as well as how they like to load the fin while sailing.

All of this attention to detail and expertise manufacturing allows a high importance on the performance and consistency of the new materials used to build the fins. Materials have to be validated not just for production, but also on the test rig in the lab and on the water by the designers.

With this in mind, being teamed to work with The Duv Composite, Sonntags owner decided when the company was looking for a new resin system that could not only deliver speed and rigidity but also being light. But based systems were dismissed at the time but the fin designer needed to try out new systems. The Duv laminating system which allowed immediate results, enabling the owner to make and validate all of the previous mechanical test targets.

In 2022, Sonntags and The Duv Composite wanted the help of a more sustainable resin system. It was the perfect time for Sonntags Fins, with their unique high performance carbon fibre fins to go green on the water too with Sicomin's GreenPoxy® 33 resin.

Test for some production with the new material confirming what a huge importance on the performance and consistency of the new materials used to build the fins. Materials have to be validated not just for production, but also on the test rig in the lab and on the water by the designers.

**READ CASE STUDY**

[sicomin.com/processes/laminating](http://sicomin.com/processes/laminating)



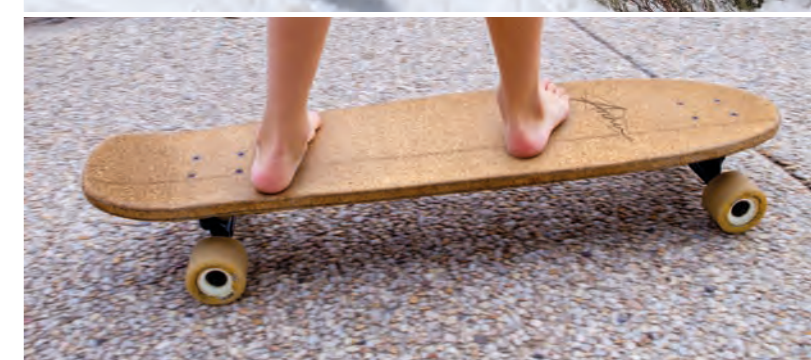
# SR8500



Multi-purpose epoxy system suited to a wide range of composite components.

- Excellent mechanical properties. Working temperatures up to 70°C.
- Simple mixing – One resin and two hardeners, mixable in any proportions, to customise the reactivity.
- SR 8500 Black Gel thixotropic formulation also available.

 **VIEW SR8500 DATASHEET**



DNV GL and Lloyds Register Type approval

“Our fins need to combine flexibility with extremely high torsion stiffness which places high interlaminar shear forces on the resin, especially in our softer fins. So a key requirement for us is a resin that maintains its mechanical properties for many years, and this is where the Sicomin systems really deliver”  
Sonntags Fins



[sicomin.com/processes/bonding](https://www.sicominc.com/processes/bonding)



## ISOBOND SR7200 HTG



VIEW  
ISOBOND SR7200 HTG  
DATASHEET

High Tg structural epoxy adhesive.

- High performance adhesive with Tg max of 80°C.
- Specifically formulated for thick and thin bond lines.
- High fatigue strength and resistance to microcracking.
- Adheres to most materials.
- Gel texture for easy mixing and application.

Sicominc epoxies  
can be tailored for all  
production parameters.



[sicomin.com/products/epoxy-systems/topclear-system](https://www.sicominc.com/products/epoxy-systems/topclear-system)



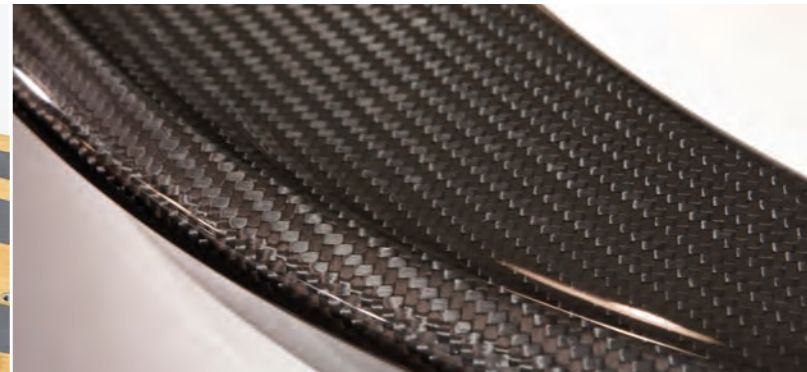
## TOP CLEAR

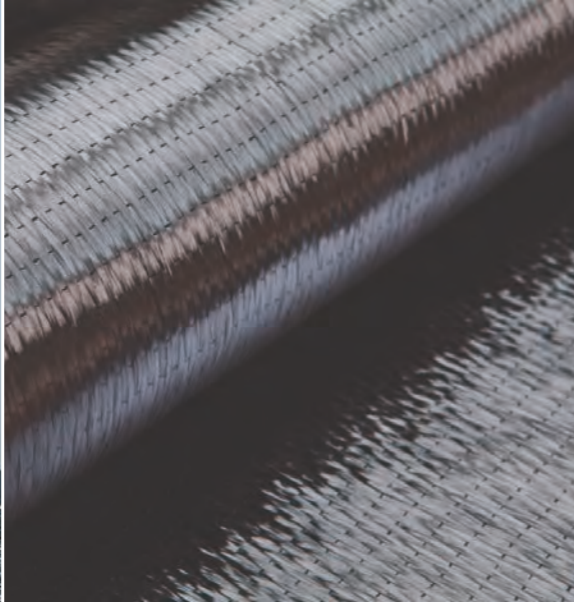
TopClear is a liquid epoxy that creates a shiny, translucent top coat that is also UV resistant.

- High UV resistance
- Brush or spray versions available
- Suitable for all materials including Carbon, Glass, Aramids, Wood and all commercial Foams.



VIEW  
TOP CLEAR  
DATASHEET





www.sicom.com/  
bio-based-epoxy



### PB 360 GS



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.



VIEW  
PB 360 GS  
DATASHEET

The largest range of  
Bio-Based Systems  
on the Market.

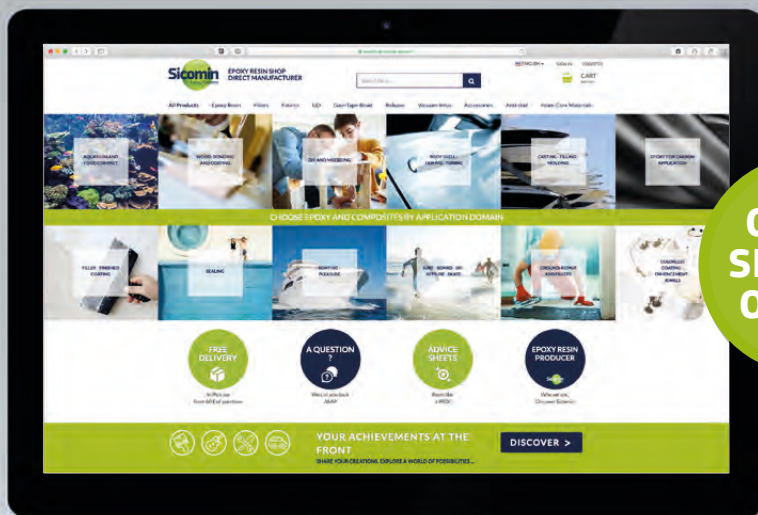


Providing Surfer's, Skiers and  
Skaters with performance boards  
that match their core values.



With credit and thanks  
to our partners for the  
use of images:

- Archer
- Borealis
- Cobra International
- GreenBoats
- Ketos Foils
- NSP
- Notox
- Sonntag Fins
- ZAG



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