



PLANKTON

Biobased Epoxy Resin made from Renewable Resources

PLANKTON



Plankton are microscopic organisms that float freely with oceanic currents and in other bodies of water. Plankton is made up of tiny plants (called phytoplankton) and tiny animals (called zooplankton) .Plankton is an essential part of the marine food chain. But according to new research, their numbers are dwindling.Plankton are the base of the marine food web, without them all larger organisms will probably die. No plankton=no fish= no food for millions of people.



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PLANKTON

Bio -Epoxy Resin made from Renewable Resources

Our product uses a naturally occurring and **renewable** resource and has low odour.

Various fillers, additives and dies have been tested with the Bio-Epoxy resin and applied as a thin coating on timber and concrete. These tests show great application opportunities for the bio-epoxy resin in the existing market and new market opportunities that will take advantage of its hardness, adhesive strength, resistance to UV and transparencyThe clear version of the Bio-Epoxy can be as transparent as glass.

Applications

Building industry

as a sealant or floor cover, feature finishes either in the coloured or clear form, building materials and adhesives.

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Manufacturing industry

in fiberglass products such as marine craft, rainwater tanks; in plastics for car light or traffic light lenses; electrical circuit boards.

DIY



a broad range of products from adhesives to water repelling sealants, feature finishes, and numerous hobbies.

More applications

Molding, sealent coating, adhesive (glue or fiberglass resin).

TECHNICAL DATA SHEET

Mechanical & Processing data

Mix Ratio (by volume)	100:40
Mix Ratio (by weight)	100:30
Working life	1 hour
Gel time	Tacky for up to 12 hours
Phenol free	Yes
Compressive strenght - unfilled	87 + 3 MPa
Compressive strenght - sand fill	edi by vol 108+ 4MPa
Glass Transition temperature - u	nfilledg - ℃ 65-75 ℃
Pencil HardnessASTM D3353	8H to 9H
UVA ASTM G154 (UV / Humidity @24H)	No deterioration
Mandrel Bend Test SO 1519 (thin film)	No cracking > 10mm
Flooring Fire test - AS/	ISO 9239.1 (2003)
Critical Heat Flux(CHF) - non direction	al 7.1 + 1.9 kW/m ²
UVA ASTM G154 (UV / Humidity @24H)	8+3%
Melting, Blistering & Penetration of flame through to substrate	Yes

Key features

Renewable resources

Primary ingredients from renewable sources. *Pending certification and traceability

UV resistant

48hrs UV lamp exposure.

BPA free Low viscositv Yellowing resistance



The reaction generates heat so should not be left unattended while curing and used within 1 hour

00:30

Mix Ratio:

By Weight



Technologies bonded by respect & driven by values

YE REDUCE JR Lower vour carbon footprint.



Repair solutions. tips. services and kits.

PEUSE

End-of-life solutions for the composite industry. Upcycling materials for new performing composites.

RESPECT

Respect for all stakeholders in the composites industry, the environment, humans & the planet as a whole.

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