

NEW 2004
Resin and infusion
process

UNIVERSAL

COMPOSITES

by
AXSON

MARINE

Axson has developed a wide variety of epoxy and polyurethane resin based products broadly used for marine composite applications either in racing, transportation or leisure fields... from design and mock up phases to final part production.

These products all meet very high standard requirements and stringent conditions for use in every marine industry such as high mechanical performance and severe environmental resistance.

Some of them had been involved in high class applications, such as Scatamaran or Open 60' hulls, and are Lloyd's Register certified.

The Resin Infusion technique stands in between the classical wet-lay up by its simplicity and the prepregs by the performance it allows to achieve. Axson launches a comprehensive range of resins, reinforcement and peripheric equipment dedicated to infusion.




DESIGN

Ref.	Description	Main features	Applications
F1, F18, F15	Fast setting polyurethane resins	Ready to use, excellent surface aspect, low shrinkage.	Mock-up, model, negative.
Labellite 109,400,410	Low density PU foam	Different density, different thickness available, work by hand and NC machining, smooth surface aspect, achievable.	Design and style studies, mock-up and models, pre shapes.
Prolab 65	Medium density PU machinable slab	NC machining, hand work: sanding, drilling, cutting etc.. Nice surface aspect, all completions.	High definition mock-ups.
SC 258 SC 165	Low and medium epoxy pastes	Manual application SC258 for modelling, extrusion machine SC165. NC machining, all backups and pre shapes, smooth surface aspect, achievable.	Large dimensions mock-up and model.
Easymax	Polyvalent PU mastic	Manual or machine applications, fine grain, no shrinkage, no solvent. 3 colours, pots and cartridges available.	Mock-up, model, assembly, completion, sealing.

TOOLING

Ref.	Description	Main features	Applications
LAB973	Epoxy machinable board	Easy NC machining, high dimensional stability, temperature resistance.	Low temperature prepreg tooling.
Mastercoat 890	Epoxy surface coating	Sprayable with gun, glossy aspect	Lab 973 tool completion.
EPOLAM 2025 /50 /80	Epoxy laminating resins	Mechanical properties, thermal and chemical resistances, wetting abilities.	Laminated tools.
HX 42	Glass or carbon prepreg	Thermal resistance, dimensional resistance, easy processing.	High performance preimpregnated tools and parts.

PARTS AND STRUCTURES

Ref.	Description	Main features	Applications
EPOLAM 2015 	Laminating resin	High mechanical performances, wetting ability, suited viscosity, UV resistance, different reactivities (4 hardeners available).	Boat hulls, structures and parts, wood bonding.
EPOLAM 5015	Infusion system	Low viscosity and good wetting ability. Good mechanical performances. Adjustable reactivity (3 miscible hardeners).	Large parts and structures production by resin infusion.
RSF 816	Laminating resin	Wetting ability, mechanical resistance, high transparency, UV resistance.	Surfboards, parts, glazing.
EPOLAM 2022	Laminating resin	High mechanical performances, thermal resistance, low viscosity, wetting ability.	Structures and parts.
GC 3 070	Polyester gelcoat	Epoxy compatible (Epolam 2015), sprayable, UV resistance.	Model and parts.
FASTIK 7	Epoxy mastic	Very fast setting, vertical application possible (thixotropic), highly reactive for wet environment.	Wet environment and submarine repair when combined with RZ30273.
EPOPAST 400	Laminating paste	Ready to use, high dimensional stability, every backup (wood metal, composites), high plasticity, 1 hour setting.	Reinforcements, assembly, fixing, negatives, print.
UR 3420/60/90	Polyurethane elastomers	Ready to use, easy direct casting processing (soft silicone moulds), different hardness, colourable, high mechanical resistance (UR 3490).	Inserts, anti grip coating, hard wearing parts, part backups

ASSEMBLY

Structural adhesives:	ADEKIT A140/170/220/A252/310NF/ H 9951...
Honey comb pannels and core materials:	Sandwich parts, reinforcements, partition walls...
Infusion accessories:	Glass or carbon multiaxial fabrics. Self-release vacuum bag, vacuum accessories, peel ply and infusion net

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