

Construction Task	Materials being bonded	Recommended product	Technique/comment
<b>For fibreglass polyester or wood hulls</b>			
1. Bonding wood <b>polyester</b> hull inside	Balsa and Ramin hardwood strip to fibreglass	Roket Hot with Roket powder / Roket Max thick Ca.  Fusion  Speed Epoxy II 1 hour mixed with micro balloons approx 1:1 to make a paste.  Aero T<ch epoxy	You need a fast setting gap filling system Tack the balsa strip / formers in place.  Fill gap with fusion in thick toffee consistency.  Fill any gap with Epoxy filler  Aero T<ch epoxy is viscous non drip and will give 4-5 hour working time.
2. Finishing plywood surface	Plywood or balsa	Eze Kote and 0.6oz glass cloth	Will strengthen hull integrity
3. Filling between deck edges and hull joint	Polyester to deck plywood	1Hour Speed Epoxy .1 parts by volume mixed. With 2 parts by vol Deluxe Materials Micro Balloons.	Work quickly. Mix max of 20ml of mixed epoxy with approx 30-40ml of Microballoons to make a creamy paste / filler. This will not shrink but set hard and light easy to sand.
4. Build interior Deck woodwork frame	Hardwood to hard wood	Aliphatic Resin	Waterproof and dries in about 10 mins. Can be sanded easily.
5. Internal bulk heads	Ply or hard wood to polyester	Fusion  Aero T<ch epoxy	6. Internal bulk heads
7. Small gaps or pin holes in polyester hull or wood parts that don't fit.		Roket Powder /Roket Hot	Pour Roket Powder into hole and add Roket Hot .Contour. When dry with Permagrait file. The surface is very hard.

8. Bonding spray rails onto exterior of hull.	Ramin/ Spruce Wood to polyester hull.	Roket Blaster Roket Max or rapid med/ thick ca Super'Phatic!	Apply Roket blaster to hull Apply spots of Roket Glue to spray rail strip. You can tack in place and bend, then wick in the strip round the hull Later Super 'Phatic! Can be applied and will wick into the gap between the wood and fibreglass .This has advantage of non brittle joint between hull and the wood rail. Clean hull first.
9. Prop shaft through polyester hull	Metal to Fibreglass	Super'Crylic! with 2 oz glass fibre	Tack in place with Roket Rapid /Max and Roket powder and use the SuperCrylic to laminate through the glass.
10. Motor mounts, rudder posts. (High stress parts)	Wood, metal plastic to polyester.	Fusion or Super'Crylic!	Reinforce with 1/2oz fibreglass
11. Deck to wood base or planking wood on top of plastic sheet	Plastic sheet to plywood	SuperPhatic!	Spread the SuperPhatic! glue with finger or brush and lay on plastic deck sheet. Weigh down overnight.  Add more SuperPhatic! round edges ; it has wicking action and bonds metal, plastic, where deck parts may have lifted
12. Superstructure (Plastic sheet to plastic sheet.	PVC, Acetate, Plasti-card	Plastic Magic solvent adhesive.	Pin Flow applicator can help to give invisible joints.
13. Bonding clear windows	Acetate /clear butyrate, styrene, polyester etc	Glu'n Glaze or R/C Modeller glue	Dries clear, gap fills and water clean up. It can be difficult to cut plastic windows to exact shape of the window frame so Glu 'n Glaze will gap fill.
14. Sealing wood surface prior to painting	Ply or balsawood	Sand 'n Seal	Has no odour and dries faster and sands better than normal sanding sealer.

Styrene/ABS vacuum made hull			
<b>Construction Task</b>	<b>Materials being bonded</b>	<b>Recommended product</b>	<b>Technique/comment</b>
15. Metal Prop shaft through styrene plastic hull.	Metal to styrene/ ABS	Super'Crylic!	Strengthen with 2oz glass cloth (Polyester resin or epoxy will not bond abs or will melt it)
16. Bonding wood formers inside <b>Styrene/ABS</b> plastic hull	Wood to styrene plastic	Roket Rapid or Super'Crylic!	
17. Rudder or other high stress parts in metal or plastic to styrene hull	Plastic or metal to styrene/ABS	Fusion or Super'Crylic!	
18. Bonding spray rails onto outside of styrene hull.	Wood to styrene	SuperPhatic! Roket Blaster on hull Roket Max thick ca	You can tack in place with Roket Max then wick in SuperPhatic! between wood and hull for a non brittle joint.
19. Highly stressed parts e.g. Motor mounts rudder posts	Metal or plastic to plastic	Super'Crylic!/ Fusion	Joint needs some gap filling
20. Bonding flanges eg deck to hull together.	ABS / Styrene to itself	Roket Plastic Glue	Roket plastic glue gives adjustment time to allow the correct positioning of flanges.
21. Spray rail to plastic hull	ABS to wood	Roket Hot and SuperPhatic!	Tack wood with Roket hot and then wick in Superphatic!