

# Extreme bonding

PETE LOWE INTRODUCES THE DELUXE TRIO THAT LITERALLY LAUGH IN THE FACE OF TOUGH TASKS AND DISSIMILAR MATERIALS



**1** This high-tech, two part, very high strength glue forms a flexible joint in plastics, glass fibre, metal, and wood. Once cured it's tougher than superglue and will bond the plastics that epoxy struggles with. Super Crylic also tolerates oily surfaces, but is not suitable for expanded polystyrene, Depron or blue foam.



**2** Super Crylic is supplied with a spatula, mixing container and two measuring syringes. Both the adhesive and the activator are mixed in equal amounts. You can clean the tools after use with acetone or cellulose thinners.



**3** A damaged ABS cowl is just one of the many jobs suited to this product. Simply bring the two edges together and tack in place with cyano before mixing the glue's components together.



**4** Applied to the inside of the damaged cowl Super Crylic cures to form a flexible joint. Should you require further strength then a thin layer of glass matt can be employed in conjunction with the glue.



**5** Aero Tech is a non-dip epoxy resin that will bond previously cured epoxy, GRP, carbon fibre, aluminium alloy, ply, and hardwood. The mixed glue will gel in three to four hours and sets in 24 hours.



**6** Aero Tech is supplied in a syringe dispenser that, crucially, allows equal quantities of both parts to be squeezed onto a mixing board at the same time.



**7** The Aero Tech dispenser gun uses the same glue that's in the syringe dispenser although the tube is of a different design (in order to fit the gun) and has disposable nozzles that, cleverly, mixes the two components as the gun's trigger is squeezed.



**8** The dispenser with its disposable mixing nozzles allows you to deposit a correctly mixed quantity of epoxy in the most difficult of places i.e. behind a bulkhead or fire wall.



**9** Fusion is a high strength hard acrylic adhesive for bonding GRP, wood, plastic and metal, as well as epoxy, polyester, PVC, styrene, carbon fibre, acrylic and ABS.



**10** Mixed in equal parts the pipette is used to transfer a measured quantity of the liquid to the mixing container while the catalyst powder is metered out with the plastic measure. Increasing the powder content will not only result in a faster cure time but will also change the consistency to a syrupy solution.



**11** Fusion is excellent for repairs such as the ball joints fitted to the glass fibre surfaces of hotliners or during construction where wooden wing joiners have to be bonded to a plastic fuselage. Here, a ply motor mount requires bonding into a polyester fuselage.



**12** Mix the glue for some 5 or 10 minutes before you're ready to apply it. Once the glue has been applied you must avoid moving the joint until it has properly cured – a period of 30 to 40 minutes.

## GENERAL NOTES

- 1 Read all of the instructions carefully and retain them for future reference.
- 2 Always test glues on scrap material first.
- 3 If it can't be glued with Super Crylic it probably can't be glued. At least, that's what John Bristow of Deluxe Materials says and I have no reason to doubt him.
- 4 Considering the diversity of the materials used in modelling today having these three glues in the workshop makes very good sense.
- 5 Always check the instructions regarding ventilation and naked flames.
- 6 It's prudent to read the section of any chemical product regarding eyes, skin and ingestion *before* any mishap, i.e. rather than having to hunt for the information while in distress!

## SYNOPSIS

### Super Crylic

- Sets in 10 to 20 minutes.
- Provides a strong flexible joint.
- Bonds materials that you can't glue with cyano or epoxy.
- Its viscosity enables lightweight glass fibre to be laminated.

### Aero Tech

- Takes 24 hours to fully cure.
- Cleaning surfaces with acetone and abrading GRP and polyester will greatly improve adhesion.
- Trick: In order not to waste a nozzle between jobs, it can be put in the freezer where it will keep for about one hour.
- The syringe version is supplied complete, however the gun for the dispenser version must be purchased separately.

### Fusion

- Sets in 30 to 40 minutes.
- Sets very hard and can thus be drilled and tapped.
- It's working life can be extended with the addition of more liquid.