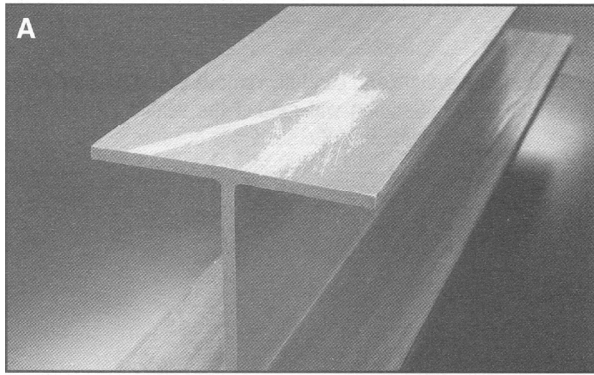


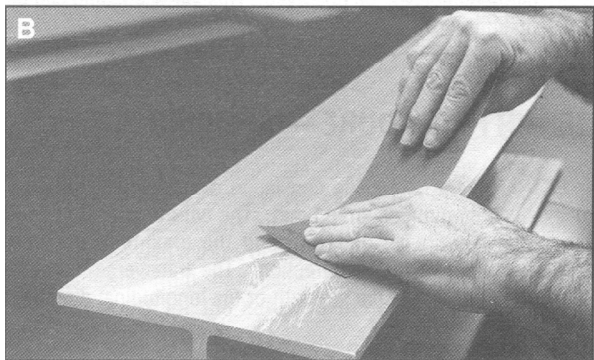
REPAIR PROCEDURE – RESIN SEALING

Exel Composites structural shapes are manufactured with a resin rich surface; this is accomplished using a synthetic surfacing veil in most products, improving corrosion and ultraviolet resistance. This veil also prevents “*Fibre Blooming*” – the emergence of glass fibres onto the surface of the part. If the surface has been drilled, cut, punched, sanded, or otherwise broken, exposing the glass reinforcement, the surface must be *Resin Sealed* to maintain optimum properties. Picture A is an example of such a defect.



Procedure

1. Sand the damaged area as in Picture B. Remove the dust and clean as required. Verify that the area to be repaired is free of moisture to insure proper adhesion of the sealant. Allow to dry if solvent cleaned.



2. Catalysed resins, paints (polyester, epoxy, or polyurethane), acrylic lacquers, or oil based paints can all be used as sealants. All of these products will effectively seal the surface but some resins will provide better corrosion resistance than the paints. Picture C is an example of catalysed resin being applied to the surface. Carefully follow the manufacturer's instructions for the use of these products as there are toxic and harmful vapors that may be generated on cure.



3. Cure the system and carefully remove excess sealant as in Picture D. Sanding will reopen the sealed surface and require a repetition of the sealing procedure.



4. Many users paint the Exel Composites structural shapes to enhance surface appearance. Structurally, the synthetic veil enables Exel Composites FRP to suffer only minimal damage due to ultraviolet radiation; however, some fading of the surface pigmentation will be observed. This surface fading can be minimized by painting.