655 Epoxy Adhesive General Use

Avoid skin contact with resin, hardener or

- mixed adhesive. Wear liquid-proof gloves and adequate protective clothing to keep the epoxy off your skin.
- Avoid eye contact with resin, hardener or mixed adhesive. Wear protective glasses. In case of contact with eves, flush with water for 15 minutes and consult a physician.
- Avoid inhalation of vapors. Provide adequate ventilation. Wear a dust mask when sanding epoxy, especially epoxy that has not fully cured.
- Read and follow safety information on resin and hardener containers.

Starting out

Puncture the seal in each tube with the point in the top of the cap. Enlarge the opening as necessary to improve flow.

Before mixing epoxy, gather all necessary application tools, clamps and equipment. Check all parts for proper fit and be sure all surfaces to be glued are properly prepared.

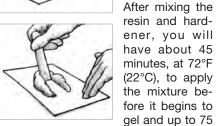
Mixing and curing

Dispense equal volumes of G/flex 655 Resin and Hardener onto a mixing pallet (1). Use the square

oughly blend the

resin and hard-





minutes to assemble and clamp parts after it is initially applied. At 72°F (22°C), the adhesive mixture will solidify in 3-4 hours and reach a workable cure in 7-10 hours. The adhesive may be sanded, clamps can be removed, and joints can be moderately joints to high loads.

G/flex 655 Epoxy Adhesive cures faster in warmer temperatures and slower in cooler temperatures. When a quicker cure is desired, apply moderate heat to substantially reduce cure time. Cure time is reduced by half with each 18°F increase in tempera-

G/flex 655 will cure in temperatures as low as 40°F (5°C), but cure very slowly. When using 655 at lower temperatures, it is a good idea to warm resin and hardener to room temperature for easier dispensing

Curing epoxy generates heat. Thicker layers of 655 generally cure a little faster than thinner layers, as this heat is concentrated in thicker layers and dissipated in thinner

Clean uncured epoxy from skin and clothes with alcohol, followed by washing with soap and water.

Remove excess epoxy from work surfaces with the flat end of a mixing stick or with paper towels. Clean up residue with alcohol, citrus-based cleaner or a solvent such as lacquer thinner or acetone.

Basic surface preparation

G/flex 655 Epoxy will bond to many different materials. For best adhesion to most materials, bonding surfaces should be:

CLEAN-Remove loose, chalky or flaky coatings, and contaminants such as grease, oil, wax, and mold release. Clean contaminated surfaces with an appropriate solvent applied with plain white paper towels. Wipe the surface with a clean, dry paper towel before solvent dries. Do not use laundered rags to apply or remove solvent as they may contaminate the surface with fabric softener residue.

SANDED—Sand non-porous and smooth surfaces with 80-grit aluminum oxide sandpaper to provide good texture for the epoxy to "key" into. Brush away sanding dust. Refer to the chart (right) for recommendations. DRY-Although G/flex 655 Epoxy can be used to bond damp and wet surfaces, maxloaded. Wait 24 hours before subjecting imum adhesion will be achieved when bonding to dry surfaces.

Additional surface preparation

Metals

Sand or grit-blast the surface to expose bright metal.

Clean the area with acetone or lacquer thinner using white paper towels. Allow the surface to dry completely.

Abrade through wet epoxy-Apply a thin coat of G/flex 655 Epoxy and immediately scrub metal surfaces through the wet epoxy coating with a fine wire brush or sand-

Adhesion to aluminum can best be improved by treating it with the two-part WEST SYSTEM 860 Aluminum Etch prior to applying the epoxy. Aluminum can be prepared using the "abrade through wet epoxy" method with good results if an Aluminum Etch kit is not available.

Hardwoods, including tropical woods

Bonding to dry wood (between 6 and 12% moisture content) is best for achieving long-term reliable bonds. Sand mating surfaces with 80-grit parallel to the grain. Clean oily woods with a solvent such as isopropyl alcohol or acetone. Apply solvent with plain white paper towels. Wipe the surface with a clean, dry paper towel before solvent dries. Do not use laundered rags to apply or remove solvent.

The extent of wood failure in tensile adhesion tests indicate that tensile adhesion

achieved using G/flex 655 Epoxy, with proper surface preparation, approached or exceeded the grain strength of the wood in all of the woods we tested.

Clean plastics, except for polycarbonate with isopropyl alcohol to remove contamination. Sand all plastics including polycarbonate with 80-grit sandpaper to provide texture for good adhesion. Flame treat ABS and PVC for additional benefit.

HDPE (high-density polyethylene) and LDPE (low-density polyethylene) must be flame treated for good adhesion.

FLAME TREATING is a method for improving adhesion to plastics by quickly passing the flame of a propane torch across the surface after it is cleaned and sanded. Allow the blue part of the flame to touch the surface. Keep it moving at the rate of 12 inches per second.

No obvious change takes place, but the flame oxidizes the surface and dramatically improves adhesion. Make multiple passes of the torch 3/4" apart to treat wide areas. Be careful not to melt or burn the surface.

While flame treating will improve adhesion to most plastics, it appears to provide the greatest benefit to polyethylene (HDPE and LDPE). If you are unsure of the type of plastic, it doesn't hurt to flame treat.

Surface preparation for various dry materials		
Material	Basic surface preparation	Additional surface preparation
Fiberglass laminate	As necessary, Remove soft and loose surface material	
Aluminum		860 Aluminum Etch, two part
Steel		
Steel-galvanized	Remove contamination with solvent wipe	
Copper		Wire brush through wet epoxy
Bronze	Sand with 80-grit sand- paper	
Lead		
Ipe	Sand with 80-grit sand- paper parallel to grain	
Teak		Isopropyl Alcohol wipe
White oak		
Walnut		
Purpleheart		
Greenheart		
ABS	Isopropyl Alcohol wipe Sand with 80-grit	Flame treat
PVC		
HDPE, LDPE plastic		Flame treat required
Polycarbonate (Lexan™)	Sand with 80-grit	

Bonding

Apply the epoxy mixture to all properly prepared mating surfaces. Apply enough epoxy to fill voids and bridge gaps on uneven mating surfaces.

Clamp the components in position before the epoxy begins to gel-about 75 minutes at 72°F (22°C). Use just enough clamping pressure to squeeze a small amount of epoxy out of the joint. Leaving some glue in the joint increases bonding strength. Allow the epoxy to cure thoroughly before stressing the joint.

Use a spreader or notched trowel to apply G/flex 655 to larger surfaces prior to clamping. Use a pipe cleaner or syringe to apply adhesive to hard to reach areas such as cracks and fastener holes when bonding hardware.

Bonding to wet surfaces and surfaces underwater

While gluing to a dry and properly prepared surface is best for producing reliable long-term bonds, gluing to damp wet, and even underwater surfaces is

Abrade bonding surfaces with 80-grit sandpaper.

Mix an appropriately sized batch of G/flex 655 Epoxy Adhesive. Forcefully apply the 655 onto the bonding surfaces with a plastic spreader or stiff brush to displace water in the scratches and pores at the bonding surface.

Bring the mating surfaces together and apply just enough clamping pressure to squeeze out excess adhesive and moisture.

If one bonding surface is dry, apply extra adhesive to it, so excess will displace water at the bonding surface. It is important that significant excess adhesive squeezes from the joint for proper bonds to form.

Gluing things to plastic boats

combined effects of three factors.

mixture cures to full strength.

ADHESION—For the best adhesion, the joint's bonding surfaces must be properly prepared.

G/flex 655 is a toughened epoxy adhesive de-Refer to the chart at left for the proper surface signed to bond to many different materials in preparation for the plastic and the material you addition to plastic. Joint strength—the ability are gluing to it. to adequately transfer a load from one part, one material, to another—depends on the

load on the joint.

Making fillets

When parts are joined at or near right an

ales, fillets can be used to add consider-

epoxy with the beveled end of the mixing

Lightweight fiberglass fabrics and tapes

(4-9 oz/sq yd range) can be used with

inforcement is desired to add stiffness or

abrasion resistance, or to patch a

Cut the fabric to fit the area. If heavier rein-

forcing is desired, use multiple thin layers

rather than a single thick layer. Properly pre-

Coat the substrate with 655. Lay the fabric in

position on the wet adhesive. Spread mixed

adhesive onto the fabric using a plastic

spreader. When the fabric and substrate

have been saturated, use the spreader to

smooth and remove excess epoxy. Repeat

the process with additional lavers.

pare the surface before applying fabric.

G/flex 655 Epoxy Adhesive when fiber re-

stick before the epoxy gels (4).

Fiberalassina

damaged area.

able strength to

the joint by in-

creasing the

surface area of

the bond. Make

fillets by apply-

ing a bead of

G/flex 655 along

the inside corner

of the joint. Form

the epoxy into a

cove section us-

ing the round

end of a mixing

stick (3), Clean

off the excess

JOINT AREA—The bonding area of the joint must be adequate for the load on the joint and materials being joined. Increased overlap, GLUE STRENGTH—Careful metering and thorscarf joints, fillets and reinforcing fibers can be ough mixing will assure the epoxy adhesive used to increase joint bonding area.

G/flex 655—a WEST SYSTEM® EDOXY Allow to cure 7-10 hours before removing clamps and 24 hours before applying a

G/flex 655 Epoxy is the result of years of experimentation to develop a toughened epoxy that was simple to use, viscous enough not to drain out of a joint, and would adhere tenaciously to a variety of materials under

G/flex 655 is all that, and more. It is a marine-grade glue that can be accurately mixed in small batches with a simple 1:1 mix ratio. It has the advantage of a long open working time and a relatively short cure time.

G/flex 655 is, first of all, a high-strength epoxy—designed for permanent, waterproof, structural bonding, Furthermore, G/flex has a modulus of elasticity of 150,000 psi, giving G/flex the toughness to make structural bonds that can absorb the stresses of expansion, contraction, shock, and vibration. G/flex adheres tenaciously to difficult-to-glue hardwoods and even has the ability to glue damp woods.

G/flex is ideal for bonding a variety of other materials, including dissimilar ones-metals, plastics, glass, masonry, and fiberglass. It can be used to wet out and bond fiberglass tapes and fabrics.

We encourage you to read these instruction and then experiment with G/flex. We think you will find many projects for which the particular properties of G/flex are ideally

WEST SYSTEM reliability

G/flex 655 Epoxy is the latest addition to the WEST SYSTEM line of epoxy products While G/flex offers physical properties and applications that are different than WEST SYSTEM 105 Resin-based epoxies, they share the same high standards for performance and reliability.

WEST SYSTEM is the worlds leading brand of marine epoxy, created by Gougeor Brothers-sailors, boatbuilders, and formulators who literally wrote the book on wood/epoxy boat building. We know the engineering and chemistry required to formulate epoxies for high-performance composite structures. It requires thorough research, rigorous test programs, skillful shop work and direct experience with today's high-performance boats and other engineered structures. This experience and dedication to performance have given



WEST SYSTEM another quality that sets it apart from other brands of epoxy. For forty years, reliability has been the hall-

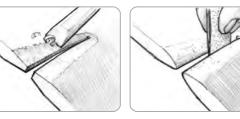
mark of WEST SYSTEM. We adhere to the highest standards of quality assurance in our formulating and manufacturing practices, from raw material qualification to testing and certification of finished resins and hardeners. This means that every properly mixed batch of WEST SYSTEM resin and hardener, including G/flex resin and hardener, will cure as it is supposed to, every time. This commitment to quality has earned certification to the ISO 9001:2008 standard. WEST SYSTEM is your reliable solution.

Outstanding customer service

WEST SYSTEM provides you with something else as reliable as our epoxy-knowledge. Whether your project is large or small, the WEST SYSTEM Technical Staff and comprehensive instructional publications will help assure the success of your building and repair project. WEST SYSTEM is renowned for its outstanding customer service.

The WEST SYSTEM website provides basic product information, dealer locations and links, project articles and galleries, and safety information.







655-K

Step-by-step instructions show you how to use the materials in this kit to repair splits, cracks and small holes in plastic canoes, kayaks and other small boats.

Tools required

In addition to the materials in this kit, you will need a propane torch, a sabre saw or hack saw, scraper or chisel, clamps, 80-grit sand paper, 2"-wide packaging tape, plastic spreader, paper towels, color matched plastic-compatible paint and laquer thinner or acetone as necessary for cleanup.

Repairs requiring additional materials

With the addition of 4–6 oz fiberglass or Kevlar[™] fabric and a plastic spreader, you can create abrasion resistant surfaces on worn stems and bottoms and repair larger holes. Instructions are included.

Repairs to inflatable boats

Patch air leaks, re-bond attachment points, repair delaminated transoms and damaged floors. Instructions are included.

G/flex Epoxy is compatible with Krylon[®] Fusion[™] or Rust-oleum[®] Universal All Surface[™] paint to match existing finishes.

Kit contents

4.5 fl oz G/flex 655-A Resin, 4.5 fl oz G/flex 655-B Hardener (9 fl oz mixed epoxy), 2 reusable mixing stick/applicators, 2 pair disposable neoprene gloves, mixing palettes and complete handling and repair instructions.

WARNING IRRITANT, POSSIBLE SKIN SENSITIZER, May cause irritation to eyes and skin. May cause allergic reaction. Avoid skin and eye contact. Do not ingest. Use with adequate ventilation. Use with liquid-proof gloves, eye protection and protective clothing.

FIRST AID: SKIN CONTACT—Immediately wash with soap and water. EYE CONTACT—Immediately flush with water for at least 15 minutes. Consult physician. INHALATION—Remove to fresh air. Consult physician if coughing or irritation develops. INGESTION—Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention, KEEP OUT OF REACH OF CHILDREN

655-A RESIN CONTAINS: bisphenol-a epoxy resin, bisphenol-f epoxy resin, amorphous silica. 655-B HARD-ENER CONTAINS: ATBN polymer, aminoetheylpiperazine, tris-2,4,6-(dimethylaminomethyl)phenol, triethylenetetramine, phenol 2.4.6-tris[(dimethylamino)methyl] reaction products with triethylenetetramine. phenalkamine curing agent, cashew nutshell liquid, 1,3-benzenedimethanamine, amorphous silica.

Plastic Boat Repair

Plastic canoes and kayaks are most often made of thermoformed plastics like HDPE (high-density polyethylene), ABS, and occasionally PVC, G/flex Adhesive bonds to these materials and is used to repair damage to products made of these materials. Refer to the safety and general use information on the reverse side of this sheet.

Repair splits and cracks in plastic boats

The repair procedure will differ depending 6. Apply mixed G/flex to one side of the on whether you will have access to the beveled joint, overfilling it slightly. back side of the repair area. Repairing splits and cracks with this kit and the following items:

- □ A sabre saw or hack saw
- ☐ A chisel, knife or other sharp scraper
- □ 80-grit sandpaper.
- □ 2"-wide packaging tape.
- ☐ A propane torch.
- ☐ Matching spray paint (optional)

Repair with access to both sides

1. Drill a 1/8" diameter hole at the ends of the crack. Open the crack or split with a saber saw or hacksaw blade to create a slight gap in the break.





ate a 3/8" to 1/2" wide bevel on both sides of the gap and on both sides of the hull including the

Bevel

edges of the

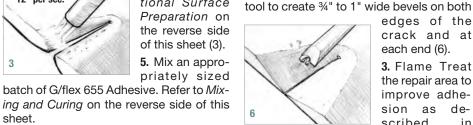
crack with

sharp tool to cre-

3. Sand the bevround the edges

and create a smooth taper (2). 4. Flame Treat the repair area to improve 1. Drill a 1/2" diameter hole at the ends of the

adhesion as de-Keep moving scribed in Addi-12" per sec. tional Surface



7. Cover the ad-

hesive-filled joint

with 2" wide cel-

lophane packag-

ing tape while

forcing excess

(overfill) epoxy

through to the

8. Fill the bev-

eled area on the

opposite side of

the repair with

more G/flex 655

Use the side of

the mixing stick

to feather the

edges of the

crack and at

3. Flame Treat

the repair area to

improve adhe-

sion as de-

scribed

each end (6).

other side of the joint (4). Avoid forcing too

edges flush with the surrounding surface

9. Clean uncured epoxy residue with a pa-

Allow G/flex to cure 7-10 hours before re-

10. Remove high spots and smooth the

11. Wipe the area with water, dry thor-

oughly and paint with a plastic-compatible

paint like Krylon Fusion™ or Rust-oleum

Universal All Surface paint™ if desired.

2. Bevel the edges of the crack with a sharp

Repair with access to one side only

surface with a scraper or sandpaper.

per towel and acetone or lacquer thinner.

and scrape away excess epoxy (5).

movina packina tape.

much epoxy from the taped side.

Curing on the reverse side of this

plastic spreader to feather the edges flush with the surrounding surface and scrape away excess epoxy (7). Add more epoxy as needed to fill low areas. Allow to cure 7-10

slightly. Use the side of the mixing stick or

6. Remove high spots and smooth the sur face with a scraper or sandpaper.

7. Wipe the area with water, dry thoroughly Sand with 180-grit sandpaper and pain overfilling it with a plastic-compatible paint if desired.

verse of this sheet. 4. Mix an appropriately sized batch of

Additional Surface Preparation on the re-

G/flex 655 Adhesive. Refer to Mixing and



5. Apply adhe-

sive to the bev-

Repair holes in plastic boats

Canoes and kavaks can be punctured as a **8.** Wipe the area with water, sand for better result of impacts with rocks and other adhesion and paint with a plastic-compatisharp objects. Repair holes with G/flex 655 ble paint if desired. Epoxy and the following items not included in this kit:

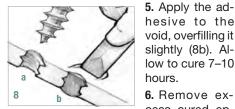
- □ 80-grit sandpaper.
- ☐ 2"-wide packaging tape.
- ☐ A propane torch.
- ☐ Matching spray paint (optional).

Repair techniques can vary depending on

hole diameter and accessability. The goal is to replace the missing material with G/flex 655 Epoxy and providing adequate bonding area.

Repair holes up to ¼" diameter

- 1. Drill out the hole with the smallest diameter bit that bridges the hole.
- 2. Run a slightly larger sheet metal screw into and out of the hole to tap threads on the inside of the hole (8a).
- 3. Apply a piece of packaging tape or duct 4. Mix an appropriately sized batch of tape over the back of the hole to prevent G/flex 655 Adhesive. Refer to Mixing and epoxy from squeezing through the hole. Curing on the reverse side of this sheet.
- 4. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet.



hesive to the void, overfilling it slightly (8b). Allow to cure 7-10 cure 7-10 hours. hours. 6. Remove excess cured epoxy and shape

cess cured ep-

oxy and shape the surface to suit with a cabinet scraper or sandpaper.

Repair holes over 1/4" diameter



side of this sheet.

shape of the hull.

Tane backer

sandpaper.

the surface to suit with a cabinet scraper, or

7. Wipe the area with water, dry thoroughly

with a plastic-compatible paint.

Sand with 180-grit sandpaper and paint

to create a taper around the perimeter of the repair with 80-grit sandpaper (9).

5. Apply the ad-

hesive to the

void, overfilling it

slightly. Sculpt

the uncured

G/flex to match

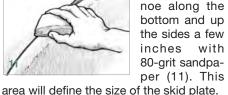
the curve of the

hull (10). Allow to

2. Flame treat the repair area to improve adhesion as described in Addi-

tional Surface Preparation on the reverse 3. Apply a piece of packaging tape over the back of the hole to prevent epoxy from squeezing through the hole. Tape a piece of cardboard or other stiff material to the back of the hole if necessary to maintain the

1. Sand the area



1. Sand the

ends of the ca-

Repair worn surfaces / create skid plates

2. Flame Treat the repair area to improve

Repair and extend the life of plastic ca-

noes and kayaks by applying reinforcing

fabric wear strips along the keel and stems

to patch worn holes and provide abrasion

resistance. Reinforce and patch worn ar-

eas with G/flex 655 epoxy and the follow-

ing items not included in this kit:

☐ Matching spray paint (optional).

□ 4–6 oz fiberglass or Kevlar[™] fabric.

□ 80-grit sandpaper.

☐ A propane torch.

☐ Plastic spreader

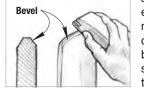
adhesion as described in Additional Surface Preparation on the reverse of this

3. Cut three or four layers of lightweight fiberglass or Keylar fabric to cover the sanded areas. Cut the bottom piece of fabric to fit to the sanded/flame-treated boundary. Trim each successive laver an inch or two narrower and shorter than the previous. This tapers the thickness of the fiberglass skid plate/patch toward the edges so it will easily deflect and cling to the hull as it flexes.

Paddle tip reinforcement

The tips of wooden canoe and kavak paddles take lots of abuse from scraping bottom and pushing off rocks. Use G/flex 655 Epoxy Adhesive to create durable edges to protect tips from damage.

1. Sand the tip of the paddle with 80-grit sandpaper to



expose fresh material and create a 45° bevel on both sides of the a thick laver that covers the beveled edges and extends the length of the tip. Allow the epoxy to cure.

Fill any voids and build up

3. Sand the cured epoxy to shape with 80-grit sandpaper. Apply varnish or paint as desired.

Inflatable Boat Repair

. Attach/re-attach accessories

4. Small air leaks in tube chamber

3. Stripped fasteners

2. Transom damage and de-lamination

Accessory attachments such as oar locks,

tow rings and hand holds are mounted to

larger flexible base pads which provide a

generous bonding area to the inflated

tubes. Rub strakes are glued directly to the

tubes. They usually begin failure gradually,

4. Place packaging tape or duct tape There are four common problems associated across the back of large holes if neceswith inflatable boats that can be resolved sary, to support the repair during cure. with G/flex epoxy:

- 5. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet
- 6. Apply a coat of epoxy to the sanded/flame treated area. Lav the largest piece of fabric onto the adhesive. Apply more adhesive to saturate the fabric. If necessary, warm the epoxy with a heat gun to lower the viscosity and improve wet out in cooler temperatures. Use the side of the mixing stick or a plastic spreader to smooth the fabric and remove excess



fabric applicapeeling from one edge and will detach tion with the recompletely if neglected. mainina piece(s). Center each smaller layer on the one not included in this kit: before it. Wet □ 80-grit sandpaper.

out the fabric, and then use a spreader to smooth the fabric and remove excess epoxy (12).

- 8. Apply a coat of G/flex 655 to fill and smooth the edges of the fabric while the fiberglass application is still tacky (optional). Allow to cure 7–10 hours.
- 9. Remove excess cured epoxy and shape the surface to suit with a scraper, file, or sandpaper.
- 10. Wipe the area with water, sand for adhesion and paint with a plastic-compatible paint if desired.

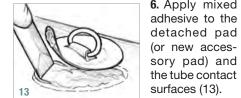
2. Apply a

mixture of G/flex 655 across the paddle tip.

- 1. Open up delaminated plywood with wedges or chisels
- 3. Clean debris and loose wood from gaps that would prevent the veneers from closing tight.

Repair accessory attachment pads 3. Clean the contact areas on the pad and the tube with acetone to remove the previ-

- 4. Abrade contact surfaces with 80-grit sandpaper. Hand sand in all directions so surfaces are evenly abraded.
- Curing on the reverse side of this sheet.



3. Fill the holes with G/flex 655 Epoxy. (or new accessorv pad) and 4. Insert and lightly tighten the fastener

Clamp it if necessary to hold it in place. Allow to cure overnight before applying load.

Repairing pinhole leaks

materials not included in this kit:

☐ Masking or packaging tape.

□ 80-grit sandpaper.

Replace damaged plywood

2. Clean this channel thoroughly.

bond together with the epoxy.

channel.

1. Remove the transom from retaining

3. Locate new plywood of the same type

and thickness as used in the original tran-

4. Use the old transom as a pattern. If you

can't get plywood thick enough, laminate

multiple pieces of thinner plywood and

Folding floor boards often have issues with

hinge fasteners separating from the

boards. Usually, the fasteners are simply

Procedure enlarged fastener holes

2. Mix an appropriately sized batch of

Curing on the reverse side of this sheet.

G/flex 655 Adhesive. Refer to Mixing and

1. Dry the screw holes.

Repair enlarged and stripped fastener holes

(7–10 hours). ■

Repair transom damage

boats usually rest in a channel fitted to pads glued to the tubes. Forces exerted from outboard motors often cause de-lamination of the plywood or degradation from rot especially around the motor mount locations. Repairs range from gluing delaminated plywood back together to replacing the transom with new plywood.

Repair delaminated plywood

2. Dry the wood thoroughly.

5. Mix an appropriately sized batch of

Accessory pads and rub strakes can be reattached and new ones attached with G/flex 655 epoxy and the following items

☐ Masking or packaging tape.

☐ Acetone solvent.

Inflatable tubes should be filled to the designed pressure. If that is not possible, lav the tube flat so no wrinkles exist.

1. Mark the location where the pad will be re-attached (or attached) and mask off the area outside of the pad to protect adjacent surfaces.

Fixed plywood transoms on inflatable

G/flex 655 Adhesive. Refer to Mixing and 6. Apply mixed

ous adhesive.

the tube contact surfaces (13).

7. Cover pad

reverse side of

5. Force epoxy

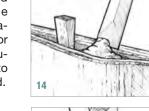
into the depth of

the separations

this sheet.

with plastic (food wrap) film then place a soft cushion-like material such as a sponge over the pad then exert mild force with a weights or wraps of tape to insure full and even contact until epoxy cures.

4. Mix an appropriately sized batch of G/flex 655 Adhesive. Refer to Mixing and Curing on the



6. Remove wedges and clamp lightly (15). Clean up excess epoxy and allow to cure 7-10 hours before using.

occur from punctures and abrasion. The boat's tube repair is similar to reattaching a delami-

nated accessory pad using the following

2. Mark the location with a pencil where bubbles are created.

3. Dry and clean surface with acetone.

1. Locate exact location while inflated. Ap-

ply 50/50 mix of water and liquid soap over

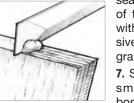
4. Deflate the hull and lay area of the repair flat so no wrinkles exist.

5. Make or buy a patch of the same material as the inflatable tube is made of and of a similar thickness.

6. Cut a 4" diameter round patch. Avoid corners and sharp curves.

5. Mix an appropriately sized batch o G/flex 655 Adhesive. Refer to Mixing and Curing on the reverse side of this sheet.

6. Glue layers together and after shaping seal the edges



of the plywood with 655 Adhe sive to seal end grain (16). **7.** S a n

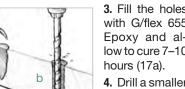
smooth, ther bond new tran-

som into the channel using G/flex 655. ■

Procedure for stripped fastener holes 1. Dry the stripped screw holes.

2. Mix an appropriately sized batch o G/flex 655 Adhesive. Refer to Mixing and

Curing on the reverse side of this sheet



Epoxy and allow to cure 7-10 hours (17a). 4. Drill a smaller pilot hole and

screw the fas

plastic, ther

with 1/2 thicl

plywood to dis

tribute weight

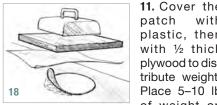
Place 5-10 lb

tener into it (17b). ■

8. Abrade tube around leak with 80-grid sandpaper, hand sanding in all directions Do same to the underside of the patch ma

9. Mix an appropriately sized batch o G/flex 655 Adhesive. Refer to Mixing and

the suspected area and observe for 10. Apply G/flex 655 to the tube and patch and place patch onto surface.



of weight or top of the plywood (18)

12. Allow to cure 24 hours before inflating

Pinhole leaks in tube chambers typically 7. Trace the patch size with pencil on

Curing on the reverse side of this sheet.



to the recommend pressure.