
Hypalon® Repair Instruction

Required Materials:

- Hypalon Tube Material Patch
- Hypalon Adhesive
- Hand Roller Tool
- Tolulene
- Stiff Bristle Brush
- Chemical Resistant Gloves
- Eye Protection
- Pencil
- Fine Sandpaper (~ 180 grit)
- Lint Free Towel

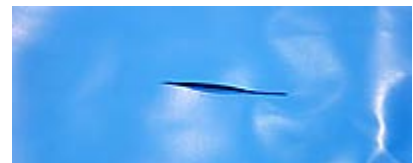


Safety First: Always work in a well ventilated area. Latex gloves, eye protection, and a respirator are highly recommended.

To ensure a quality repair, read all instructions before beginning.

Introduction:

No matter how careful you are when boating, tears, rips, and holes to your boat can occur. So knowing how to repair your boat, regardless of how big the job, is extremely valuable information to possess. This example is a 2" long cut, which requires a patch on the outside. A tear in the fabric of an air holding area 4-6"+ will require a patch to be placed on the inside and outside, also known as a "sandwich" patch. The sandwich patch will need to be treated like two separate repairs, allowing the first, the inside patch job, to cure before beginning the outer patch.



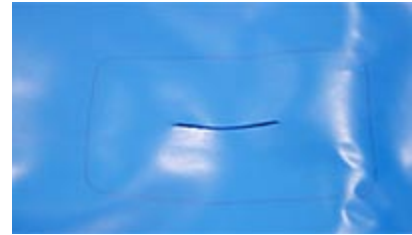
Step 1:

Cut the Hypalon Material patch to extend 2" from all sides of the damaged area. This patch is approximately 4" x 6", for a 2" long cut. Make sure to round the corners of the patch. Square cornered patches are more likely to catch and peel than rounded ones.



Step 2:

Trace the area of the patch on the damaged surface with a pencil.



Step 3:

Using 180 grit sandpaper or a rasp, lightly buff the areas to be glued. This includes the damaged area of the boat as well as the backside of the patch. The fabric should look like a dulled version of the normal boat surface. DO NOT buff down to the point where the threads are visible. The goal here is to remove the surface glaze of the fabric, without removing excess coating.



Step 4:

Clean the buffed surfaces with a lint free towel and Toluene. The Toluene removes any oils, protectants, and sanding particles. It also prepares the surfaces to take the adhesive. Its use is important for achieving a good glue bond.

Step 5:

After the first layer of glue is just tacky apply another **very** thin second layer of adhesive to both surfaces. Test for "just tacky" with a gloved finger or by touching knuckles to the glued area. The glue should feel gummy, but should not stick to the gloved finger or knuckle. **Do not** use your bare fingertip to test for tackiness. Fingers contain oils that will be left behind and effect the bonding quality of a repair job.

Step 6:

Repeat Step 5, applying a third thin layer of adhesive to both surfaces.

Step 7:

Once the third coat is to the just tacky stage, the two surfaces can be joined. If the adhesive dries beyond this stage, you can reactivate the adhesive by wiping the surfaces to be bonded with a lint free cloth dampened with Toluene. Join the two surfaces together when the adhesive is tacky to the touch but does not transfer when tested with a knuckle. Be **careful** with this step. Make sure to place the patch in the correct area. Hypalon® Adhesive is a contact cement, so once the surfaces have contacted they cannot be moved.



Step 8:

Once the two surfaces are pressed together, apply vigorous pressure with the roller tool or roller rasp. Focus on the center of the patch and work outward. Roll every millimeter of patch in multiple directions. This step is important because it forces air bubbles out and helps the two pieces of material bond.



Step 9:

Use a lint free towel dampened with Toluene to wipe up any excess glue expelled from the patch edges while rolling.

Step 10:

Allow the patch to cure. Curing times vary due to the different temperatures, humidity, and whether Accelerator was used. The optimal repair environment of above 60°F and below 50% humidity, allows for a curing time of 8 - 12 hours. If at all possible avoid repairs when the humidity is above 70%. When having to make a repair when you're on a trip, you may not have a choice of weather conditions and optimal cure time. In those cases avoid over-inflating a patched tube and you may need to redo the patch when you get home.

Note: Each ASIS boat comes with a repair kit containing Hypalon patches and Hypalon adhesive.