

Universal Inflatables

EVA REPAIR INSTRUCTIONS

Fabric Preparation

- 1. Neatly remove Damaged EVA, be very careful not to puncture inflatable below or it will need to be patched before new EVA is laid down.*
- 2. Make boundary outline on EVA with Pencil or tape to give boundary of removal. Make as square or rectangular as possible as this is most effective way to replace the EVA is if all lines are straight. Oversize replacement EVA pad slightly as you can then fit it almost seamlessly in replacement area,*
- 3. Use generous amounts of MEK SOLVENT on a soaked rag to remove residual PVC glue on Inflatable surface as you will be applying new fresh PVC glue before applying 2 part polymer glue for EVA adhesion.*

You would use MEK to prep virgin PVC before application of new glue anyway. MEK SOLVENT will make virgin PVC tacky, it softens the substrate making application of new glue more binding to surfaces. Use a lint free towel or rag. This removes any oils or other contaminants that can interfere with the glue bond. MEK should also be used to thoroughly clean the underside of the EVA material before 2 part Polymer Adhesive is applied.

Application

- 1. Apply one thin, even coat of PVC adhesive to Inflatable surface Do not apply to EVA as they are incompatible), using a stiff bristle brush, brush it on rapidly making sure complete coverage of surface. Allow it to dry at least 3-5 minutes if in air conditioned environment.*

Preferably using a hair dryer (rather than waiting 3 -5 minutes for natural dry) to dry the glue applied to the surfaces. This removes any moisture that settles on the drying hydroscopic adhesive. Glue should have

a transparent finish when properly dried. If it appears cloudy then the glue is too thick or contains moisture.

- 2. Once PVC glue is dry on Inflatable surface apply 2 part Polymer Adhesive on top of that. Apply 2 part Polymer adhesive to underside of new EVA too. Either wait 10 mins or dry with hairdryer. Apply second coat of 2 part polymer adhesive to both surfaces. Wait till tacky (or use hairdryer) and bring both surfaces together.*
- 3. Carefully align the patch and press both surfaces together. Apply pressure to the entire glued surface using a roller. Roll every millimeter of patch in multiple directions, working from the inside to the outside of the patch. This step is important because it forces air bubbles out and helps the two pieces of material bond. While curing it is best if there is a heavy weight lying on top of repaired area for constant pressure.*
- 4. Complete curing time takes approximately 24 hours.*
- 5. Be careful when rolling up a repaired inflatable for storage. Make sure drying is complete.*

Recommended Environmental conditions and Safety Precautions

- Ideal ambient temperature for gluing: 75°F and below 50% humidity.*
- Maximum humidity: Do not try to mix and apply glue if the humidity exceeds 70%.*
 - Work in a well ventilated area (garage or shady area works well)*
 - Chemical resistant gloves (i.e. Nitrile gloves)*
 - Organic Fume Respirator is recommended*
 - Eye protection*