



POLYESTER REPAIR INSTRUCTIONS - A GUIDE ONLY

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1. Preparation:

The ding area to be repaired needs to be completely dry and clean. All loose particles, jagged fibreglass, dirt and wax must be removed before repairing. Please ensure when repairing or laminating a surfboard you keep the resin AWAY FROM DIRECT SUN LIGHT as this will cause rapid hardening of resin. Also DO NOT use on Styrene Foam.

Using the coarse grit sandpaper with the sanding block, sand down the particles (damaged fibreglass or foam) that needs to be removed and blend the ding into the rest of the board. Please note it is recommended to sand out 3mm of ding and blend the ding into the rest of the area as preparation before step 4.

2. Mixing Resin and Filler Powder:

Always handle the resin out of sunlight (Indoors). The Filler Powder is called Q Cell, and is used to thicken the resin to make it more workable and expands it to fill in large areas. Use the Filler Powder when there is a large area require repairing.

When adding the Filler Powder to resin, please do slowly as the powder can easily airborne. Keep adding the powder until you reach a toothpaste type consistency. Ensure the Filler Powder is completely mixed through prior to filling the ding.

3. Filling the Ding:

When filling a ding that is greater than 20mm with Resin and Filler Powder, it is a good practice to repair the ding in two stages. This will reduce the heat created during the curing stage and resin is full catalysed.

It is recommended to tape the area to be repaired, thus creating a dam to contain the mixture from spreading over the board. Then pour little amounts of the mixture at a time, this will help reduce air bubbles being formed and also fill in any voids that are created. Make sure the mixture is slightly higher than the board to ensure the ding is completely filled and covered.

4. UV Curing the Resin:

Once the ding is filled and checked for air bubbles and voids, expose the repair to Sunlight. Please beware resin will cure within minutes when exposed to sunlight. Example of curing times by sunlight:

Bright Sun: Gel 15 Seconds / Full cure 5 minutes.

Partial Sun: Gel 30 Seconds / Full cure 6-8 minutes.

Bright Sun: Gel 45-60 Seconds / Full cure 10 minutes

If repair depth is over 1/4", you will need to add MEKP to the resin at 1% to catalyse. MEKP Catalyst (Methyl ethyl ketone peroxide) can be purchased from hardware stores. Curing time with MEKP for a depth of 1/4" should cure within 15-30.

After the board is left in sunlight to cure, use coarse sandpaper with sanding block and sand the repair. Sand the mixture smooth and slightly lower than the surrounding fibreglass and feather the repair into the board.

5. Fibreglassing the Ding:

Cut the desired shape of fibreglass and make sure it covers the repair and extends onto the sanded part of the board. Please note, circular fibreglass shapes blend easier making it better for repairs. Apply a thin layer of resin over the repair and slowly add the fibreglass smoothly over the repair, then slowly saturate the fibreglass until the cloth becomes completely clear. If a second layer of fibreglass is required then repeat the process. It is important to use the squeegee to pull out any excess resin or air bubbles. Extra layers of fibreglass will fill up the dinged area, increase strength and ensure that it will not lose its integrity when sanded. Now expose the repair in the sun leave the resin to cure.

6. Sanding the Ding:

Place a coarse piece of sandpaper onto the sanding block and remove any bubbles or jagged fibreglass pieces and shape the repair. Then place the lighter grade sandpaper on the sanding block and sand the repair until smooth and well blended into the board. If desired use 500-1000 grit wet/dry paper to create a smooth and shiny feel.

Safety and First Aid

Please remember to always take care and apply safety measures when using these products. We suggest the use of protective gloves, masks and eyewear when working and handling these products. Please refer to the label on the resin for safety measures and first aid information.