



## TRIROOF FIBREGLASS ROOFING KIT PREPARATION AND APPLICATION

### Preparation

Before beginning your project, there are a few things we recommend,

- Use of 18mm T&G OSB3 roofing boards. OSB random strand structure allows for greater resin impregnation to the surface and therefore a better bond for the overall laminate
- Please ensure that roofing boards are kept dry at all times and remain covered until your are applying the fibreglass laminate.
- Fibreglass needs to be applied on to a dry substate and in dry conditions with no danger of rain or moisture for min 4 hours.
- Where square edge boards have been fitted, it is necessary to reinforce the joints with Fibreglass tape or bandage consolidated with the resin. **(Bandage and or tape are additional items and need ordered separately to the roofing kit).**
- When working out specific area, please ensure to allow for the overlapping of fibreglass in the laminate layup. We recommend 5-7.5% additional on top of the actual measurements.  
**E.g 5 x 3.5m roof = 17.5sqm but allow for additional = 18.5sqm requires 20sqm kit**
- Use Fibreglas roofing trims to form your upstands, drip edges, raised edge, expansions etc. We have a full range of trims available online. These are all 3m long.

### Catalyst Mixing Guidelines

- The parameters of catalyst requirement vary with ambient temperature.

#### **RESIN**

5-12deg 3% Catalyst addition or 30ml per 1kg or 1l of resin

12-16 deg 2% Catalyst addition or 20ml per 1kg or 1l of resin

16-21 deg 1% Catalyst addition or 10ml per 1kg or 1l of resin

#### **Topcoat**

We recommend working at 2% for Topcoat, this is to ensure an even cure and to protect against aeration of the Topcoat.

Again 20ml per 1kg for Topcoat.

## **Application**

### **Fibreglass laminate**

- Resin requirement for fibreglass roofing is dependent on the weight of glass used. For 450g roofing kits (weathering only), we allow 1.5kg of resin per sqm. For 600g kits we allow 2sqm resin per sqm. This is to ensure good wet out and also allows for the soak to the OSB board.
- Catalyst additionAs above, if applying trims or square edge board has been used, then you will need to apply the roofing bandage to all joint. Cut your bandage to suit lengths and then apply to the surface with resin roller, ensuring to remove any creases or rises etc
- Using the Paddle roller provided, consolidate the bandage and resin to flatten out and ensure full wet out and removal of air pockets or creases.
- Allow to cure for 1-2 hours, before scuffing with 80-100 grit sandpaper. Brush off the dust and then wipe with an acetone or Triklean dampened cloth.
- Ensure to have your CSM/ Chopped strand matting, precut to length for the roof and allow for the 50mm overlapping of joints and new sections.
- Mix enough resin to do 2-3sqm at a time. So for 2sqm 3kg for 450g matting or 4kg for 600g matting.
- Once ready to start, add your catalyst to the first resin batch. Only catalyze what you need for each section, as working time will only be 15-20 mins for Catalyzed resin.
- Apply a small amount of the resin to the surface of the OSB and then lay your matting section down as flat as possible. Use the remaining resin to wet out the matting using the Blue stripe roller heads.
- Once wet out, then use the Aluminum Paddle roller to consolidate the glass. Roll the glass gently until surface is free from creases or pockets and the glass has become Opaque in appearance. Do not over work the glass as this can lead to resin being pushed out of the specific area.
- Lay your next section I the same way, ensuring to overlap joints by 50mm approximately, and repeat process until surface is covered.
- In event you only get some sections done and need to leave project. Ensure the boards are kept dry until resuming. If previous section has cured, then simply sand 50mm edge along the last joint and wipe again as previous, before resuming the lay up.

**Topcoat**

- Once you have completed the fibreglass laminate, leave to cure for 2-3 hours before scuffing surface with the 80-100 grit sandpaper. This will key the surface again.
- Brush off and clean with a Triklean or Acetone dampened cloth again prior to Topcoating
- To apply the Topcoat, allow 500-600g per sqm as per kit and again only catalyze enough to do each section.
- Add the Catalyst to the Topcoat at 20ml per 1kg or 1l and mix with a clean stick or stirrer
- Apply the topcoat with the Mohair or Velour roller heads for a finer and more even finish.
- Allow to cure and ensure no rain or dampness gets on to the surface for 2-3 hours.