FIBRE TECH

INSTRUCTION MANUAL FOR FIBERGLASS REPAIR KIT

The fiberglass repair kit can be used for many applications, including PVC pipes, water tanks, gutters, car bodies, wood, patio decks, roofs and much more. Our easy-to-use kit gives strong, long-lasting results with minimal experience required. The kit contains:

1. Fiberglass mat
2. Resin
3. Hardener (catalyst)

PREPARATION AND SAFETY

To ensure safe and effective use of this product, follow these safety precautions:

1. **Ensure Proper Ventilation** - Always work in a well-ventilated area, as resin can emit strong fumes that may be harmful if inhaled in enclosed spaces. Keep away from open flames and do not smoke: resin and acetone are flammable.

2. **Wear Appropriate Protective Gear and avoid contact with skin** - Always wear nitrile gloves, safety glasses and long sleeves. Use a dust mask when sanding, and a respirator with organic vapour cartridges when working in small or enclosed spaces.

3. **Protect Your Eyes** - The hardener (catalyst) can cause serious eye injury. If it gets in your eyes or on your skin, rinse immediately with plenty of clean water for at least 15 minutes and get medical help.

4. **Choose the Right Conditions** - Work in the shade on a dry day. Direct sun and heat make the resin set too quickly, and rain or damp surfaces will stop it from bonding.

APPLICATION

1. **Prepare the Area**
    a. Sand the damaged area, extending 1 to 1.5 inches beyond the edges.
    b. Wipe the area with acetone and a clean cloth to remove dust and grease, then let it dry completely.
    c. On smooth plastic such as water tanks, sand thoroughly until the whole area is dull and rough. Resin needs a rough surface to grip.
    d. For water tanks, make the repair on the outside of the tank.
    e. Cut the fiberglass mat to cover the damaged area with a 1 to 1.5 inch overlap. For extra strength, cut a second piece slightly smaller.
2. **Mix the Resin and Catalyst**
    a. Measure resin using mixing cups (1 pint = approx. 473 ml).

b. Add 5 ml (about 1 teaspoon) to 8 ml of hardener (catalyst) per pint of resin. Use the lower amount on hot days.
c. Mix thoroughly in a plastic container with a plastic spoon for at least 1 minute.
d. Only mix small batches—gel time is 10–20 minutes, depending on temperature and catalyst amount.
e. Apply immediately after mixing.

3. **Apply the Resin and Fiberglass**
   a. Use a brush, roller, spreader, or squeegee to apply resin to the surface.
   b. Place the first fiberglass layer onto the wet resin, covering the damaged area, ensuring it overlaps 1 to 1.5 inches beyond the edges
   c. Apply another coat of resin on top and dab with the brush until the mat is fully saturated (it turns see-through) and no air bubbles remain.
   d. For best results, add another layer while the previous one is still tacky: place the next piece of mat on top and saturate it with resin in the same way.
4. **Cure, Finish and Clean Up**
   a. Let the repair cure for at least 24 hours (preferably overnight).
   b. Once fully hard, sand the patch smooth. Paint over it to protect it from sunlight, which can yellow and weaken the resin over time.
   c. Clean brushes and tools with acetone straight away, before the resin sets. Wash your hands with soap and water.
   d. Leave leftover mixed resin to harden in an open container before throwing it away. Never seal it in a closed container, as it gets hot while curing.

STORAGE

1. **Store Safely** - Keep resin and hardener tightly closed in a cool, dry place, out of direct sunlight and away from heat, flames and children.

2. **Keep the Hardener Separate** - Store the hardener in its original bottle and never mix it with anything other than the resin.