

Fiberglass repair kit

Steps

- Clean the area to be repaired using soapy water
- After drying, sand the area to be repaired using a 80 grit sandpaper. Sand additional 2 inches around the repair area for proper bonding
- Tape the surrounding area to avoid spills
- Pre cut the fiberglass mat to required size. Cut atleast 5 layers of mat for the repair. Additional fiberglass can be layered later on if required.
- Mix the required quantity of polyester resin in a disposable mixing cup. Add cobalt accelerator to it, mix well it uniform colour is seen. Then add MEKP catalyst to it, mix well. (See chart for ratio of resin to accelerator to catalyst.)
- Apply an even layer of resin to the mould surface. Let it cure to a tacky state.
- Once the 1st layer of resin is tacky, ie surface is sticky to touch but doesn't leave residue on the finger, mix another batch of polyester resin with appropriate quantity of cobalt accelerator and MEKP catalyst. (never mix accelerator and catalyst together. Always one after another)
- Lay the pre-cut fiberglass mat on it, and soak the mat with additional resin. Use a stippling action when applying resin to the fiberglass. Once saturated with resin the fiberglass becomes transparent. Try and remove as many air bubbles trapped beneath the mat by using additional resin.
- Add extra fiberglass reinforcements until desired thickness is obtained
- Let the part cure for atleast 24 hours
- Once the resin is cured it can be sanded using a sandpaper to achieve a smooth surface.
- The repair can also be painted upon using any automotive paints.

Tips:

Never mix more than 400gms of resin at one time.

Use acetone to clean the brush and accessories.

Accelerator and catalyst mix ratio:

For room temperatures between 29-35°C: Mix 1% of cobalt accelerator and MEKP catalyst for working time of about 20-30 mins.

For room temperatures between 21-28°C: Mix 2% of cobalt accelerator and MEKP catalyst for working time of about 20-30 mins.

Accelerator and catalyst ratios can be varied according to user needs. New users should make a test batch to check out the required mix ratios. (Extra 0.5% of each can reduce working time by 10 mins.)

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