

How to make a mold and mix fiberglass

by SilverSpear

Ingredients you will need:

- Plaster
- Water
- Metal Grille (used for mosquitoes) or nylon grille
- Resin
- Hardener for resin
- Fiber mat
- Stick for stirring
- 2 lower water bottles halves.
- Gloves
- Paintbrush
- Thinner
- Board of wood or metal with a good surface
- Piece of disposable cloth or handkerchief
- Grinder
- Dust masks (particle masks)
- Garage where fiberglass dust will be ok.
- Be sure to be wearing coveralls that cover most of your body and be sure to use gloves.

- 1 - "Wipe" the liquid soap onto the area and shape you want to make a mold of.
- 2 - Mix the plaster with water and put it onto the shape and in the process put onto the grill to strengthen it and put plaster over it too.
- 3 - When it dries, remove the mold gently from the shape, and now you have a mold ready to be used.
- 4 - "Wipe" the mold interior with liquid soap to form a very thin layer over it.
- 5 - Wear the Gloves
- 6 - Put the appropriate piece of fiber mat on the board and prepare the other piece which you will use to thicken the piece you are doing.
- 7 - Pour in the first bottle half, 2" of thinner (at most) and in the other one 2" of resin (at most, as a beginning)
- 8 - Put like 10 drops of hardener on the resin and stir the mixture* with the stick (maybe you need more or less drops according to the resin quality, just ask your supplier for instructions...)
- 9 - Paint one side of the fiber mat with the mixture using the brush in a way not to soak the mat. Quickly and gently remove it from the board and put it inside the mould (**wear gloves**) and reshape the edges of the mold using the brush.
- 10 - Put resin on the other mat pieces and then into the mould and keep repeating the process until either you are out of mixture or the thickness of the grill is acceptable.

- 11 - When you are done, squeeze the brush with the piece of cloth to remove the excess mixture and then put it in the thinner piece of bottle to preserve it for later use.
- 12 - Keep the mold in the shade for around 15-25 minutes and then put it in the sun. (P.S. if you put it directly in the sun, you will risk cracks in the mixture/fiber mat if your mixture is rich in hardener.)
- 13 - Keep it in the sun for 2 hours and keep feeling it with your finger to see if it is dried (again according to the resin quality)
- 14 - When done, remove it gently from the mold (without breaking it). Put the gloves and particle mask on and use the grinder to remove the excess fiber mix and smooth it up.
- 15 - Try it on your car, if it fits correctly, send it to the paint shop...

*mixture = resin + hardener in the bottle piece.