Guide to Resin Infusion; fig. 1

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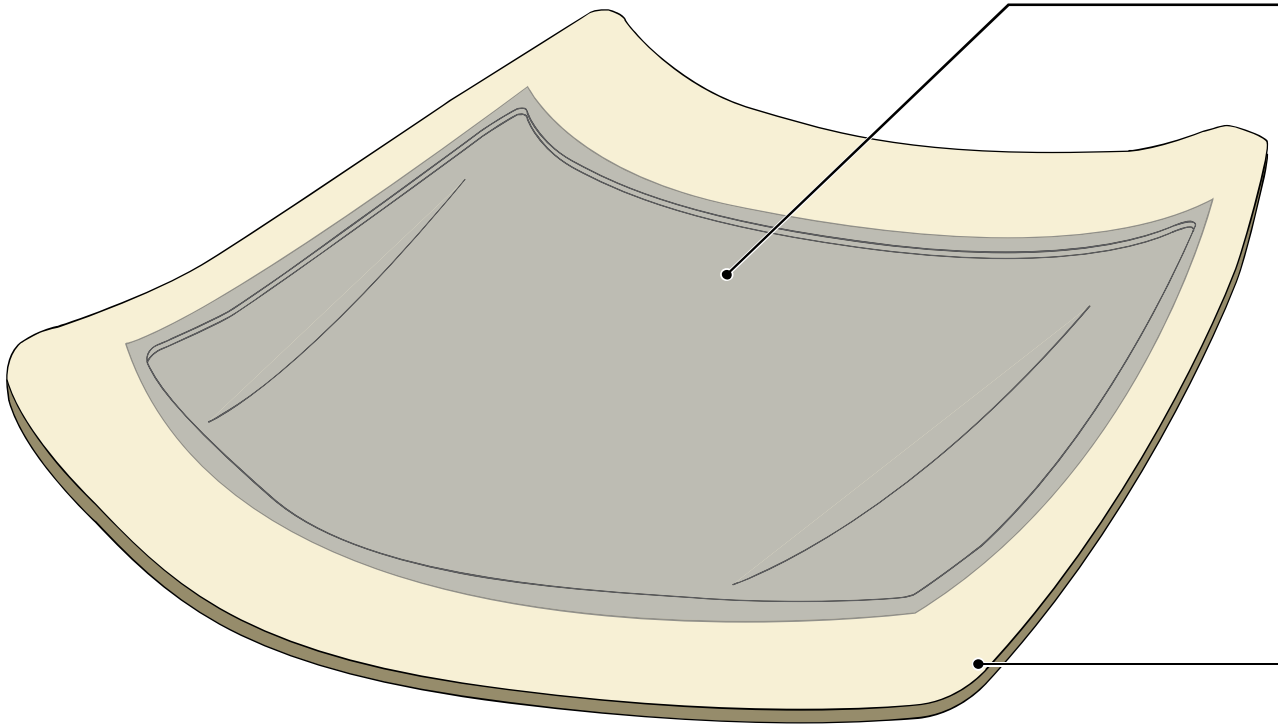
1: Prepare the mould surface, 2: Cut and position reinforcement



Carbon Fibre / Glass Fabric

Multiple layers of reinforcement such as carbon fibre, carbon and kevlar or woven glass should be layered into the mould ensuring that the fabric is sitting well into all the corners and contours of the mould. The vacuum should not be releid upon to position the fabric or to pull it into the corners fo the mould.

Epoxy Mould with Flanges

The mould itself should be clean and smooth and prepped with a suitable release agent.

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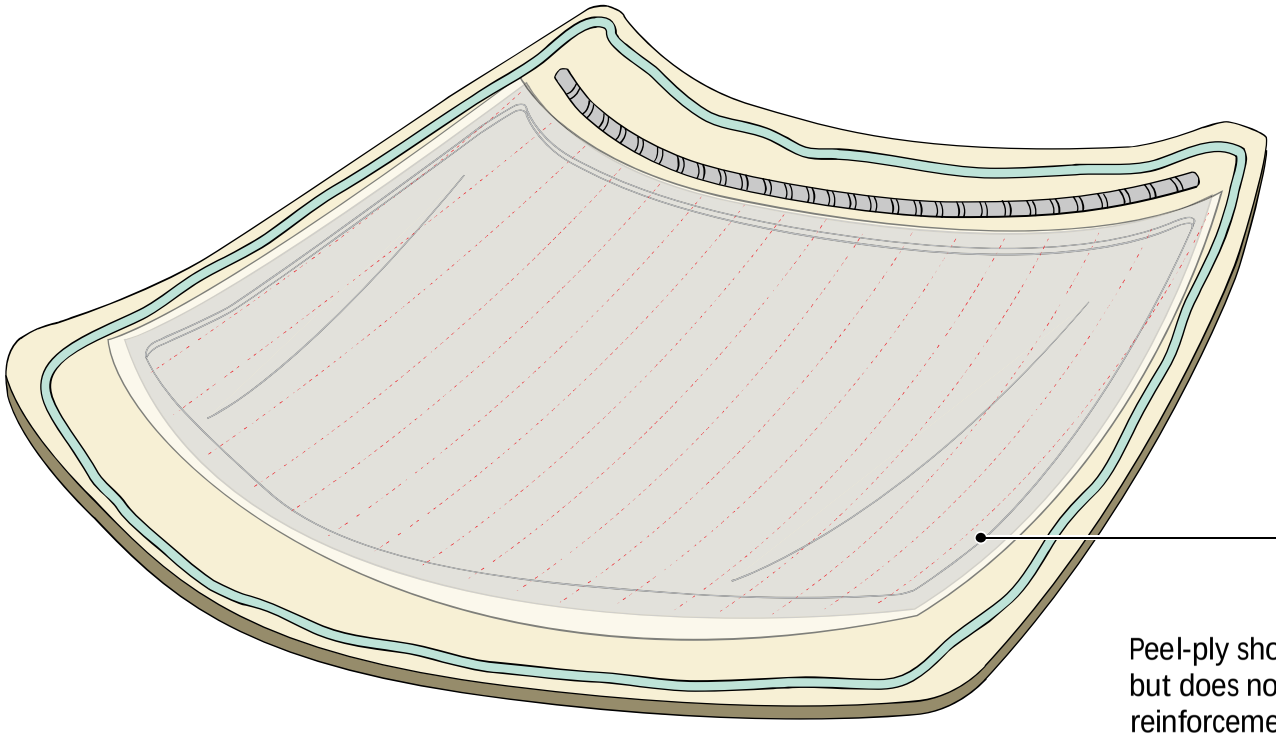
3. Add the peel-ply layer



Peel-ply should cover all of the reinforcement but does not need to be any larger than the reinforcement.

Guide to Resin Infusion; fig. 3

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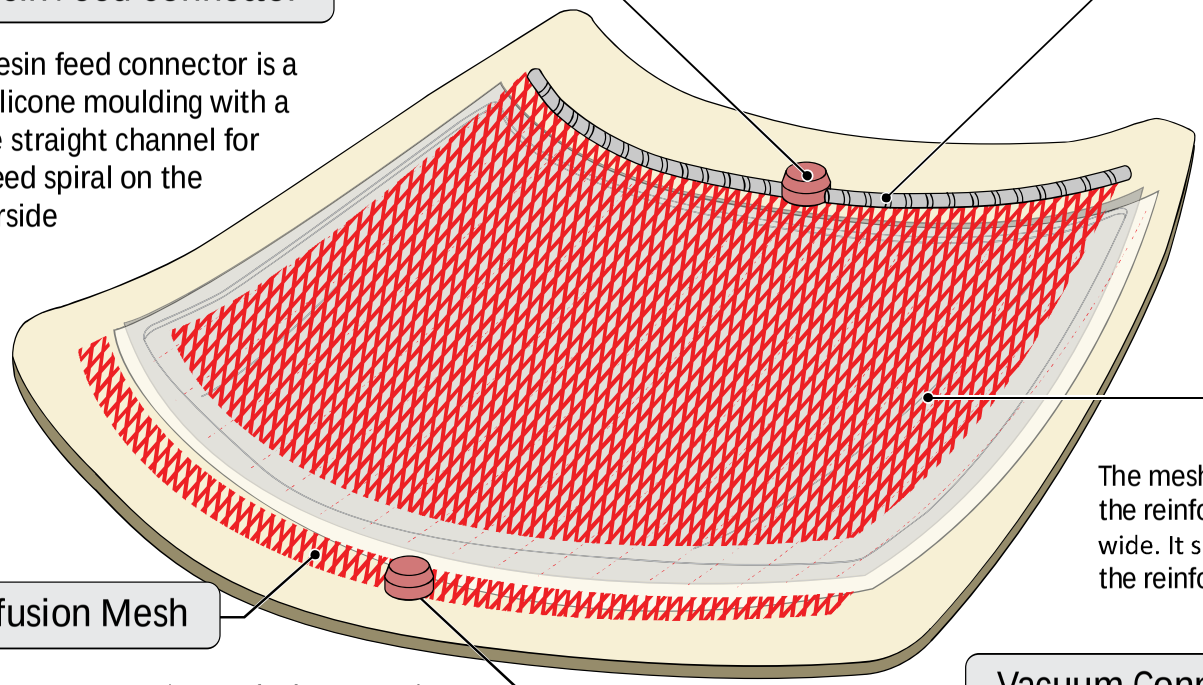
4: Add the infusion mesh, 5: Position the feed spiral, 6: Position the feed connector 7: Position the vacuum connector



Resin Feed Connector

The resin feed connector is a red silicone moulding with a single straight channel for the feed spiral on the underside

Resin Feed Spiral

The feed spiral should be sat directly on top of the infusion mesh, near one edge. There should not be any reinforcement underneith.

Infusion Mesh

The mesh should be cut to be almost as big as the reinforcement but slightly shorter and not as wide. It should be positioned to end just before the reinforcement ends.

Infusion Mesh

After a gap, a second strip of infusion mesh should be placed. Thisforms a seat for the vacuum connector.

Vacuum Connector

The vacuum connector is the second red silicone moulding. It does not have the single straight channel underneith.

Guide to Resin Infusion; fig. 4

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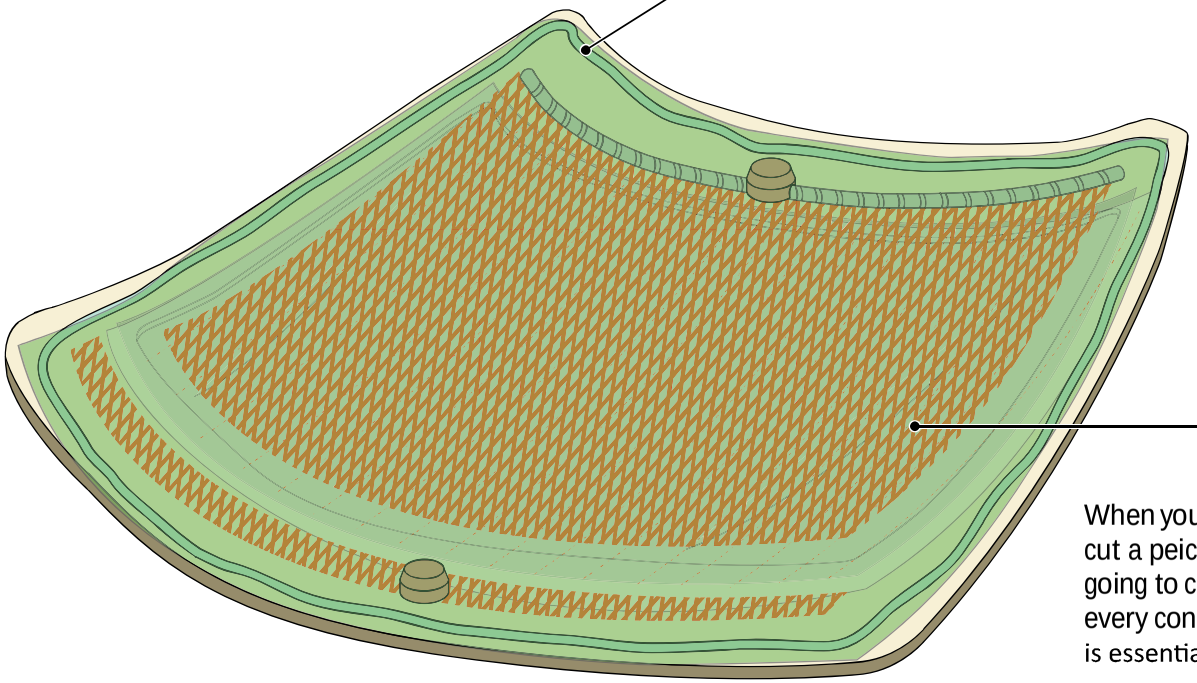
8: Apply vacuum bagging tape, 9: Position and tape down the vacuum bag



Bagging tape is stuck down to the mould's surface all the way around the mould. For obvious reasons it needs to be continous with no gaps. The tape can be easilly jointed where neccessary by overlapping it and pressing joins together.

When you cut the bagging film, always ensure you cut a peice quite a lot larger than the area you're going to cover. This 'slack' allows the bag to get into every contour and corner of the mould surface and is essential to the bagging process.

Guide to Resin Infusion; fig. 5

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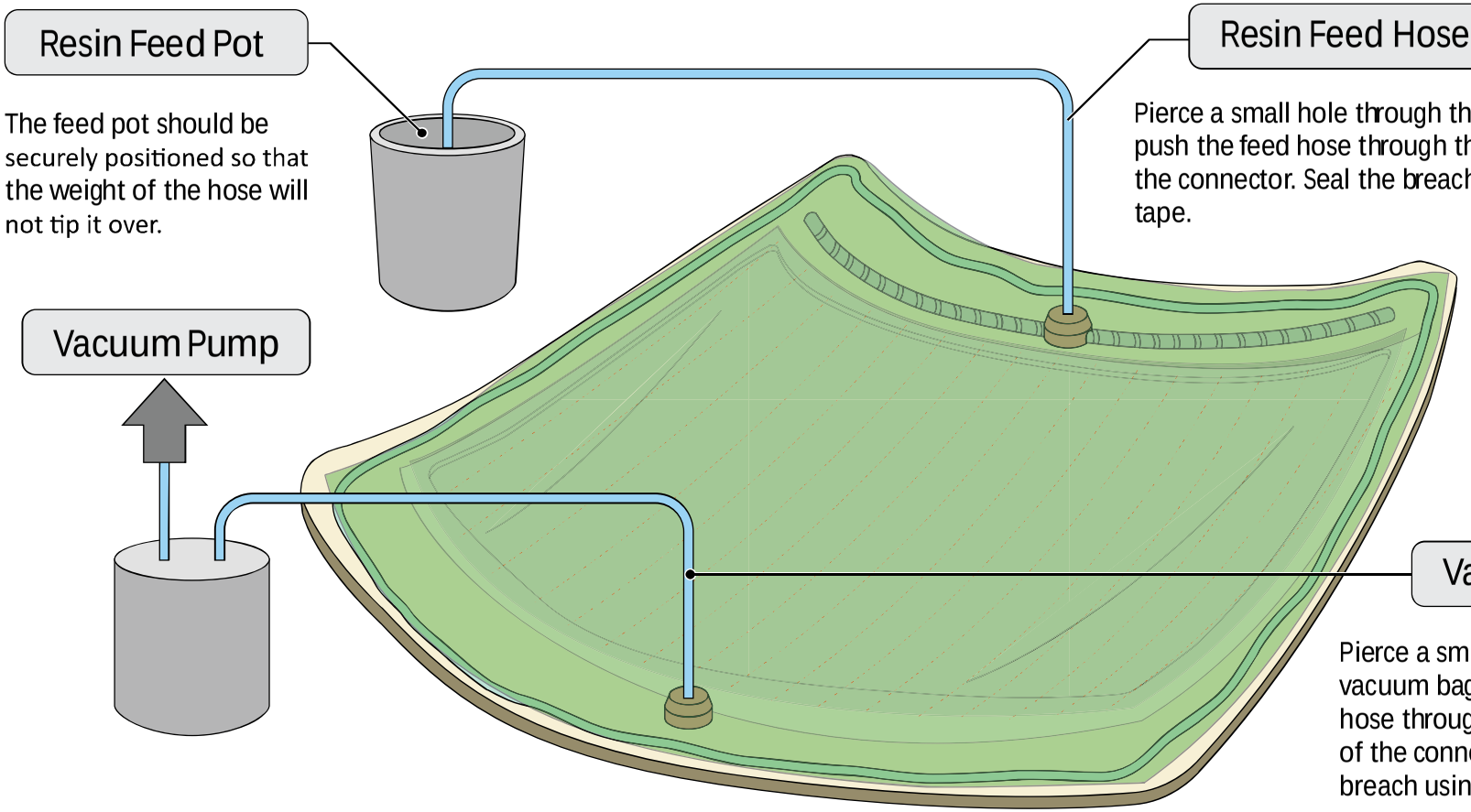
10: Connect and seal theresin feed hose, 11: Connect and seal thevacuum hose 12: Set up the resin feed pot, 13: Connect thevacuum pump and catch-pot



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13: Clamp the resin feed line