

Mould making with Resin8 Silicone RTV Moulding Rubber



Equipment Needed

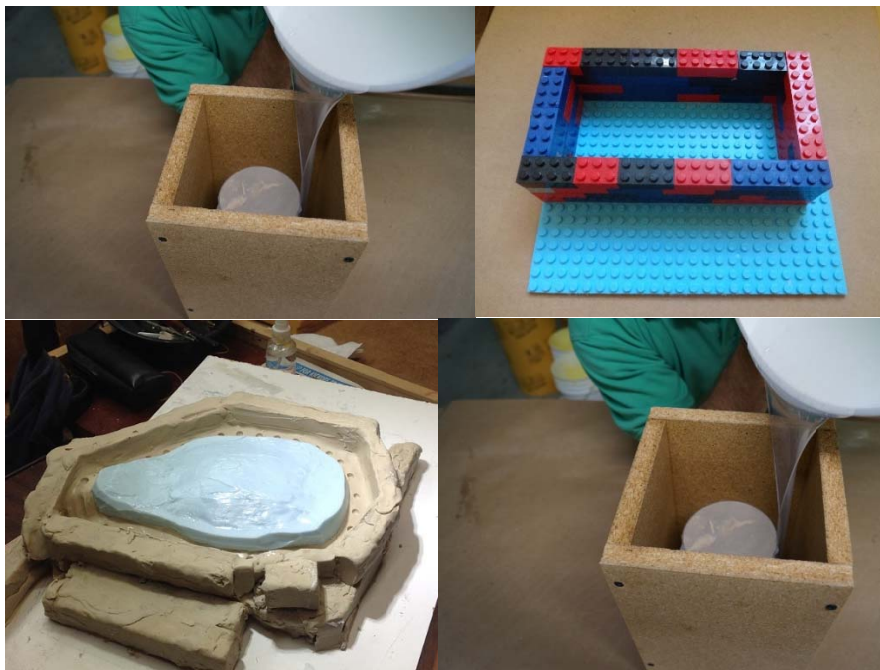
- Scale** A standard kitchen scale is perfectly adequate to weigh out the rubber base
- Syringe** A medical syringe is ideal to measure small quantities of catalyst
- Mixing** A use a flat blade spatula or wooden tongue depressors to mix the components
- Containers** Virtually any container is suitable to mix the rubber and catalyst
- Supports** Mould supports are required to contain the silicone and prevent it from leaking from the mould space

Mould Supports

The purpose of the mould support is to contain the rubber around the model

Mould supports can literally be made of anything that will fit around the model.

Items such as wood, heavy cardboard, glass, plastic, Lego, plasticine etc.



How to make a mould support

Corrugated plastic or “Corex” is used in this instance

Firmly secure your model to a firm base



Make sure that any gaps between the base of the model and the base of the mould support are filled in to prevent the rubber from flowing underneath the model

Either “Vaseline” or plasticine can be used



Construct the mould support around the model. The mould support should be at least 6mm away from the model on all sides. Use a glue gun to secure the support to the base.



Mixing the rubber

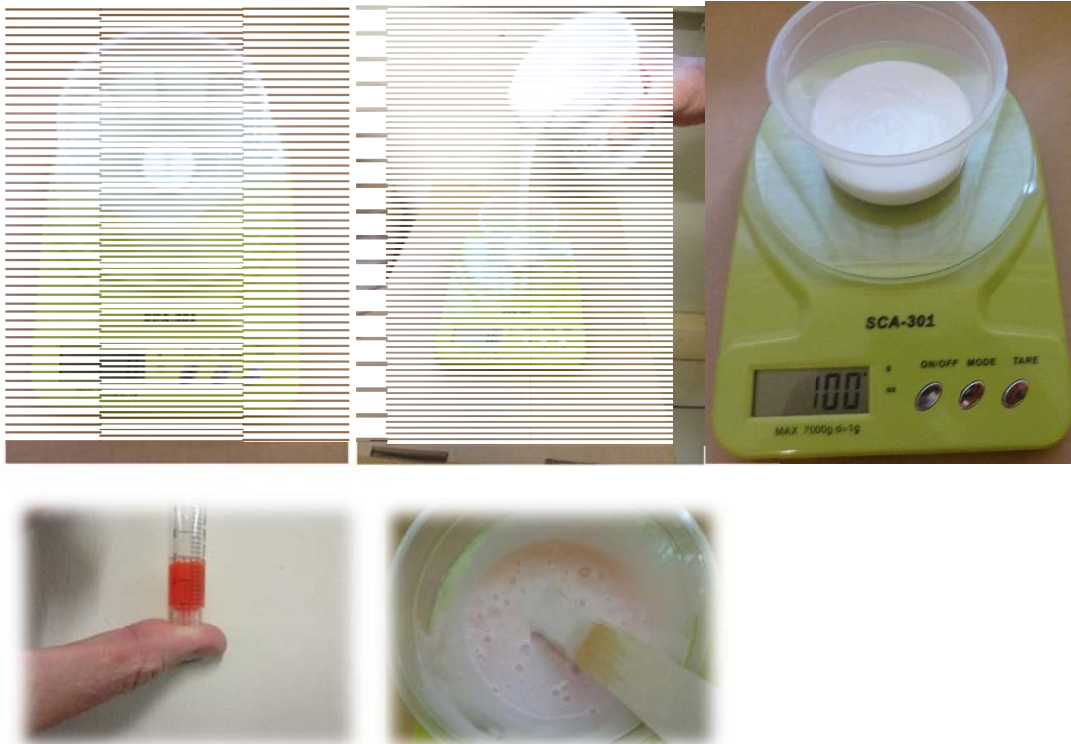


Resin8 Silicone Rubber comes packed as a 500g silicone Rubber Base (D) and a 20g Rubber Catalyst (E)

Using a scale, weigh out the required quantity of Silicone Rubber base.

Using a syringe carefully measure the appropriate amount of catalyst

(Resin8 Silicone Rubber uses 2% catalyst) Use a flat blade spatula or tongue depressor to mix.



100g Silicone Rubber	2g Rubber catalyst
150g Silicone Rubber	3g Rubber catalyst
200g Silicone Rubber	4g Rubber catalyst
250g Silicone Rubber	5g Rubber catalyst
300g Silicone Rubber	6g Rubber catalyst
350g Silicone Rubber	7g Rubber catalyst
400g Silicone Rubber	8g Rubber catalyst
450g Silicone Rubber	9g Rubber catalyst
500g Silicone Rubber	10g Rubber catalyst

2% Catalyst Addition Rate

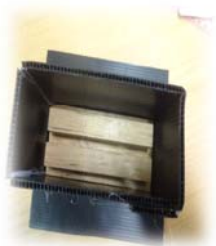
The rubber should start curing within an hour and be fully cured within 4-5 hours

Please note that ambient temperature will affect the curing time of silicone rubber. Below 20 Degrees C the cure time will take longer and above 25 degrees C. the curing time is faster.

You can increase the catalyst by 0, 5% to speed up the cure

You can decrease the catalyst by 0, 5% to slow down the cure

Mixing and pouring the Resin8 Silicone rubber



Place the model inside the mould support

Make sure all the edges of the mould support are sealed to prevent the rubber leaking out. This can be done by using tape, modelling clay "Vaseline" or a glue gun.



Tilt the model and support slightly and pour the mixed rubber and catalyst into the lowest point of the mould support

Pour the rubber from about 30 cm above the mould as this helps to break the air bubbles as it is poured

De-moulding your model



When the rubber fully cures, (after about 4-5 hours) remove the mould support, and release the mould.

Turn the mould over and carefully pull out your model

The mould is now ready for your preferred casting material

