

# Mould Making



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## Latex Mould Making

Latex liquid rubber is a prevulcanised emulsion which will air dry on the surface of a master pattern to form a highly flexible thin rubber skin. Extremely versatile this material is widely used in such diverse fields as the manufacture of moulds for garden ornaments to the production of theatrical masks. Latex is easy to use, is relatively strong and will give good definition and accuracy of reproduction. Up to 10% shrinkage may occur using latex.

Suitable Masters can be made from plaster, clay, wood and non porous materials. NB some metals may react with latex resulting in a weak mould. Plasticine can be used but will result in reduced mould life.

Latex moulds are suitable for casting plaster, candle wax and resin (not clear casting resin)



### Basic Instructions

#### Paint on Method:

Glue model down on to a base and extend mould onto this to form a support when casting model. Paint a number of layers of latex with a soft brush allowing a part cure at room temperature between layers. Brush out any air bubbles that form. If the master is non porous, the latex will tend to run so only very thin layers can be applied. Keep repeating the process until a skin of sufficient thickness has built up. Small pieces will require 7-10 layers. When dry (approx 2-3 hours) apply washing up liquid on the surface to prevent it sticking to itself. When you have removed the mould talc the inside of the mould.

Latex thickener is an optional extra that can be added to latex if required. It is particularly useful when using a non porous master. It also helps build up the thickness of your mould much quicker. Use at a rate of approx 1 drop per gram of latex. Use un-thickened latex for first 2 layers.

#### Notes:

Use a cheap brush and put it in a plastic bag between layers. Throw away after use.

When not in use talc moulds and store in a dark place.

#### Dipping Method

This is best carried out with porous masters. Dip for a few seconds and remove. Using a brush burst any bubbles that may have formed. Re-dip for approx 15-20 minutes. Remove and allow any surplus latex to drip off and allow to dry. The latex should be touch dry in approx 10 minutes and ready to peel off in approx 2-3 hours. In the event of a thin mould the thickness can be increased by re-dipping as soon as possible but within 12 hours to ensure latex will bond to itself.

Latex can be coloured using latex colours added at a rate of around 5%.

## Other Moulding Making Products

### Gelflex

Gelflex is a meltable PVC resin which can be poured over a model to form a flexible mould. Good tensile strength and flexibility will allow castings with deep undercuts to be removed from a 1 piece Gelflex mould without damage. The material melts at around 130C/135C and is poured over suitable masters. A release agent is not normally required. A major advantage is that when a mould is worn or requires replacement, it can be cut up and remelted and reused. Porous masters will require sealing prior to use. Ideal for plaque moulds.

### Silicone

Silicone produces a very high quality mould. There are 2 types one which is suitable for plaster and resin (Type NV) and one which is suitable for low melt metal alloys (Type HB).

### Alginate

Quick setting and non toxic mould making material suitable for taking body casts.

## Plaster Casting

We stock 4 different types of plaster. Fine Casting Powder being the softest to Crystacast which is the Hardest

	Mix Ratio Powder:Water	Setting Time Min (approx)	Volume/Kg Approx
Fine Casting Plaster	2:1.25	20	900ml
Herculite II	2:1	10	800ml
Herculite Stone	2.5:1	35	700ml
Crystacast	2.5:1	15	700ml

Approximate volumes only. Batches may vary

### Basic Instructions

Powder/Water Ratio - By Volume ie. 2 cups of Fine Casting Plaster to 1 cup of Water

- 1) Measure out required quantities
- 2) Ensure mould is supported and ready to pour in plaster.
- 3) Place water in a clean dry bowl
- 4) Slowly add powder, stirring gently to avoid air bubbles.
- 5) When mixed pour into mould
- 6) Agitate to remove any air bubbles
- 6) When set remove from mould and, ideally, leave somewhere warm overnight to dry

Notes:

If using rubber moulds apply a small amount of warm water with a bit of washing up liquid in on the outside of mould when removing. As a guide you will need approx 1/2 the volume of the mould in water. Eg. If you are using Herculite II and the volume of your mould is 500ml you will need to mix 250ml water with 500ml plaster (2:1). We would advise to mix slightly more than required though.

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# Order Form

Order #	Description	Price - Each	Qty	Total	
002030	Liquid Latex 250ml	£3.25			
002031	Liquid Latex 500ml	£4.50			
602000	Liquid Latex 1 Litre	£7.50			
602001	Liquid Latex 5 Litres	£25.00			
002035	Latex Thickener 100ml	£1.55			
002003	Fine Casting Plaster 1kg	£1.75			
002006	Fine Casting Plaster 2.5kg	£2.49			
002008	Fine Casting Plaster 5kg	£2.99			
002013	Herculite II 1kg	£2.49			
002016	Herculite II 2.5kg	£3.99			
002018	Herculite II 5kg	£5.99			
002023	Herculite Stone Powder 1kg	£2.99			
002027	Herculite Stone Powder 2.5kg	£5.99			
002029	Herculite Stone Powder 5kg	£9.99			
602010A	Gelflex 1kg-Flexible (natural)	£8.95			
602011A	Gelflex 1kg-Semi Flexible (blue)	£8.95			
AD2037	Alginate 454g	£4.60			
AD2037	Buy 5 or More	£4.00			
RA11500	Silicone HB 500g	£17.68			
RA11600	Silicone HB 1kg	£28.25			
RA110000	Silicone NV 500g	£17.68			
RA111000	Silicone NV 1kg	£28.25			
TRY11307	Latex Colour 100ml	£2.25			
Blue-BL, Brown-BR, Yellow-Y, Black-B, White-W, Green-G, Red-R					
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