

moulidd

01

how to use

02

detailed
coaster
instructions

03

tips & tricks

04

safety

05

faq

How to use

1. Prep your Resin

When you receive your moulded resin, or if you have stored it in a cold space you may find some crystallisation has occurred. For best results, place your resin bottle in hot water for around 15 minutes or on top of a radiator. This will make your resin thinner and help reduce bubbles, making the resin easier to work with.

Thinner resin will make it easier to combine with the hardener, meaning less risk of having issues with it curing!

The hardener tends to be thinner and usually does not need warming, but if it is particularly cold you can also place this in the hot water for the final 5 minutes with the resin.

2. Prep your workspace

Clear and cover your workspace. We recommend using silicone mats, old plastic table cloth covers or baking paper. Once hardened, resin can be very difficult to remove so ensuring your work area is covered now will save you heart ache in the future. We also recommend wearing gloves and working in a well ventilated space. If this is not possible you can also wear a mask when working with moulded resin.

3. Measure & Combine

Moulded resin & hardener has a ratio of 1:1 by volume. Meaning 100ml of resin needs to be mixed with 100ml of hardener, in order for the mixture to cure properly. Using a measuring jug is the easiest way to get the right amount of ml for each. We do not recommend mixing more than 1L of resin and hardener combined at a time, to minimise risk of a flash cure. This is when the resin and hardener overheats and cures in a matter of minutes.

It is also possible to measure the resin and hardener by weight with a ratio of 1:1. However, as the resin is slightly denser, you will have a small amount of resin left over.

How to use

4. **Mix**

Once you have poured the resin and hardener together, stir the mixture for a minimum of 3 minutes. Scraping the edges, to ensure there is no unmixed resin or hardener. When you add the hardener you will notice it makes the resin cloudy. Ensure all cloudiness/streaks are gone from the hardener, once it is clear it is fully mixed. Stirring slowly will help reduce bubbles and leaving the mixture for 2 minutes to stand once mixed will allow bubbles to rise to the top if they do form. Mould resin has a 40 minute work time once mixed. This means you have 40 minutes before it is too thick to work with.

5. **Working with colours**

Mould resin blends perfectly with a number of colouring options. Mica powder, alcohol based colours and pigment pastes are all ideal. Remember a small amount of colour goes a long way, adding too much can cause it not to cure properly.

6. **Pour**

Once mixed together you can pour your resin into your moulds. Mould resin is self levelling and be used for depths of up to 20mm. For any heights above this we recommend working in layers. Bubbles should now rise to the top to pop. However, if there are any bubbles remaining we recommend using a heat gun to remove these.

7. **SET**

Covering your art with cardboard boxes or cling film, will help protect it from dust settling, You will find mould resin is hard to the touch within 12 hours and cured within 24 hours (Do not test without gloves). Within 7 days it will be fully heat resistant.

The time it takes to cure can vary depending on room temperature.

Detailed Coaster Instructions

1. Prep your Resin

When you receive your moulded resin, or if you have stored it in a cold space you may find some crystallisation has occurred. For best results, place your resin bottle in hot water for around 15 minutes. This will help reduce bubbles and make them easier to mix.

2. Prep your workspace

Clear and cover your workspace. We recommend using silicone mats, old plastic table cloth covers or baking paper. We also recommend wearing the nitrile gloves provided in the kit and a mask.

3. Pour & Mix

Approximately 50ml of resin and 50ml of hardener is needed to make 1 coaster. Therefore 1L is enough to make about 10 coasters. Starting with just one allows you to practice first before going for more, however, you can make more in one go. Pour your resin and hardener slowly into your large jug. Then stir slowly for 3 minutes with the large stirrer, Working with resin slowly ensures the minimum amount of bubbles!

4. Colour & Divide

It is time for you to decide what your creations will look like. Deciding now will allow you to assign enough resin to each colour. Once decided divide your resin into the small silicone jugs. You can also leave some in the large jug. You will find in the kit 6 different colours. Adding mica powder to the resin will colour it. The more mica powder you add the more vibrant the colour and you can also combine mica powders!

Detailed Coaster Instructions

5. **create**

Pour your different colours into the coaster moulds. For inspiration of designs you can go to mouldd.co.uk/inspiration. Mouldd resin has a 40 minute work time, before it will become too thick to work with.

6. **Wait**

You will need to wait 24 hours for your coasters to fully cure. It will take 7 days for the coasters to be heat resistant.

7. **Cleanup**

Your entire coaster kit is reusable. All of the tools are made of silicone meaning that the resin will simply solidify and then peel away. Same with the jugs, if you leave them to harden you will then be able to remove all of the remaining resin. Once it is all clean, you can make more coasters with the remaining resin & hardener! If you have spilt any resin using anti bac wipes or simple washing up liquid and kitchen paper will clean it up.

3. **Unmould**

Once you have waited 24 hours for the resin to cure, the coaster will simply peel out of the mould revealing your new resin coasters. Enjoy!

Tips & Tricks

- Moulded resin has a work time of approximately 40 minutes depending on room temperature. Perfect working temperature is between 18°C and 22°C.
- For best results and to reduce bubbles, heat the resin before use, either by placing the bottle in hot water for 15 minutes or by a radiator.
- In colder temperatures using a heat mat is a great option to ensure optimal curing temperatures.
- Moulded resin works best to depths of 0-20mm. For depths higher than 20mm, simply work using layers.
- Once you have finished creating your art, cover it to avoid dust settling on it. Old cardboard boxes or cling film are good a good option - just ensure they do not touch the resin while curing.
- Covering your workspace is a good idea in case of spillages. Old table cloths, baking paper, oil cloths or even old clothes offer good protection.
- You can add almost anything to moulded resin; seashells, charms, mica powder, resin pigment, alcohol inks, glitter, sprinkles. Let your imagination run wild! Just don't add anything which has moisture in it. For example dried flowers are fine, but fresh flowers are not!

**For more of our tips and tricks take a look at
moulded.co.uk/tips&tricks**



**More info
here!**



Safety

1. **Wear gloves**

To avoid getting any resin and/or hardener on your skin, it is important that you wear the gloves provided in the kit at all times. We recommend putting these on before getting the rest of the kit out. In the kit you will find nitrile gloves - these are the best type of gloves to use as they are the least likely to react with your skin and the resin. If you want to test whether the resin has cured, do not touch it without gloves on until you are certain that it has fully set.

If in the instance you do get resin on your skin, we recommend having a pack of wipes handy to immediately grab to wipe the resin off. Then simply wash your skin with soap and water thoroughly to remove any residue.

2. **Work in a well ventilated area**

It is important to open your windows (weather permitting of course!) or turn a fan on if you can't open your windows, to help improve ventilation. Make sure you have good ventilation throughout the entire process - from opening the resin to curing.



**Please read the SDS
before use, either Scan
here or go to
www.mouldd.co.uk/sds**

Safety

3. **Wear a plastic apron & goggles**

Spillages are inevitable - even the team at Moulddd still spill a drop or two every so often! Just a simple PVC apron will do the job so that you can wipe, or even peel, off the resin once it has cured.

In the same way that we wouldn't want you to spoil your favourite top, it is important to cover your eyes in case of any splashes by wearing safety goggles.

4. **Use a respirator mask**

When working with moulddd resin we recommend wearing a respirator mask, especially if you have poor ventilation.

If you want to use a respirator, we would recommend finding a NIOSH approved respirator.

5. **Disposal & Storage**

Dispose of contents/container to a special waste collection point, in accordance with local, regional, national and/or international regulation.

Storage: Store in original, sealed containers, in dry and ventilated storage rooms. Keep away from food, animal feed, dishes for food, in places inaccessible to unauthorised persons. Avoid direct exposure to sunlight, heat sources and fire. Take all necessary measures to avoid accidental release into sewage systems, water or transmission systems.



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FAQ

What depth does mould resin work best for?

Mould resin works best from 0 - 20mm. It then works perfectly in layers for depths above this.

Is mould resin heat resistant?

Mould resin is fully heat resistant up to 90°C. Above this you will find the resin will become slightly mouldable, but then will reharden. Full heat resistant properties after 7 days.

What is the cure time?

Working with mould resin at a too high/low temperature can lead to a sub-standard cure. Working in a room temperature between 18°C and 22°C will result in the resin curing within 24 hours.

Does yellowing occur?

Mould resin was specially designed to ensure yellowing does not occur. Not only is the resin UV resistant, but included in the formulation are absorbers, interrupters and brighteners. Leading to a best in class clarity.

mouldd

**www.mouldd.co.uk
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