

How To... Freeze and Fuse Starter Kit



With this kit you can produce your own small cast glass pieces, with enough silicone left for future projects.

In the kit:

Modelling Clay (2kg)
Silicone (1kg)
Catalyst (100g)
4 x Bullseye Glass Powders (100g each)
Set of Modelling Tools
Bullseye Box Casting Tip Sheet

You may also need:

FFP3 Dust Mask
Safety Goggles
Small Plastic Tubs or Cups
Spatula
Shelf Primer
Kiln Shelf
Kiln
Paint Brush
Paper Towels
Water
Access to a Freezer
Diamond Hand Pad (or other cold-working tools)

Tips:

Try using different coloured glass powder in the detail of your mould to create accents to your work.

The firing schedule you use depends on the size of the object and size of your kiln - experiment!

For more casting tips and ideas, take a look at the Bullseye Box Casting Tip Sheet.

Need more help? Take a look at the Knowledge Base on our website.
www.warm-glass.co.uk



Create your own silicone mould and use it with the Bullseye powders to produce a small cast glass piece with the fascinating 'freeze and fuse' process.

This kit contains everything you need to create a micro-casting glass piece. This technique works for small objects (up to the size of a matchbox). Always use a mask when working with powders.

To make a freeze and fuse cast glass piece:

1. Using the clay, mould your design to the shape you would like your cast glass piece to be. Alternatively, use a found object such as a seashell or toy car. As you are moulding in silicone there is no need to worry about undercuts.
2. Fix the clay model or object to the bottom of a small tub. Make sure it is secure.
3. Mix the silicone with the catalyst in the ratios shown on the label. Make up enough to cover the object being moulded by 1cm.
4. Fill the tub with the silicone mix until the object is covered by 1cm of silicone.
5. Allow it to set. This may take up to 30 minutes.
6. Remove the clay or original from the mould. Clean the mould with water and a brush if needed.
7. Fill the silicone mould with Bullseye Glass Powder.
8. Carefully top up the mould with water. Pat the top dry with a paper towel.
9. Put in the freezer overnight or until fully frozen.
10. Pop out the frozen glass from the mould. Place on a primed kiln shelf.
11. Fire your piece in a kiln. An example firing schedule is below.
12. You may need to cold-work the fired piece to remove any sharp edges etc.

Now try moulding other small objects. Experiment with colour layers and using powder to highlight details in the mould.

Freeze and Fuse Schedule (for micro-castings):

Segment	Rate (Degrees/hour)	Temperature	Hold
Segment 1	333°C	→ 696°C	5 mins (10 mins for large kilns)