# Make your own slurry bell mushroom

Make yourself a beautiful mushroom using the Bell Mushroom Drape Mould.

The following instructions enable you to make a mushroom cap using the bell mushroom drape mould (CPGM209).

**You will need to following to create this project:**

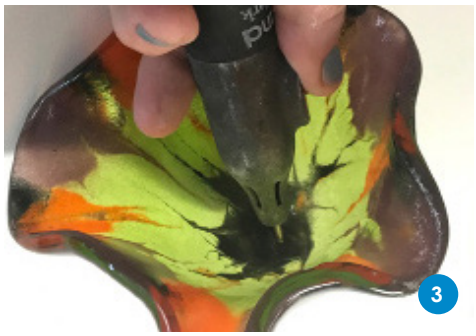
- Creative Paradise, Inc. moulds CPGM209
- 3" - 6.5" diameter of single or double layer fusible glass
- COE96 frits - F1powders in various colours
- ZYP
- 1/4" OD copper coil/tube
- Two-part epoxy
- Copper crimp buttsplice size 14-4

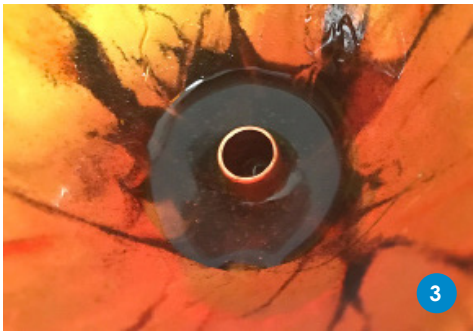
## Ensure your mould is well primed before use

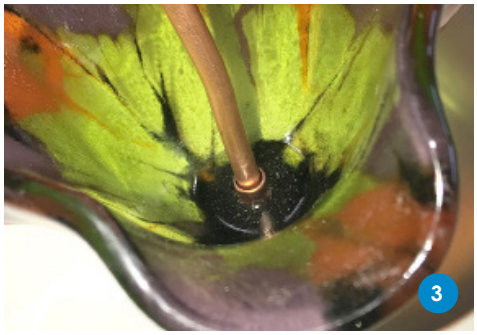
By using a primer this will prevent the glass sticking to the mould and potentially damaging the mould and the glass, make sure you use a small brush for detailed areas and dry thoroughly.

Creative Paradise highly recommend using ZYP a Boron Nitride spray due to the high temperatures required, this easy to apply spray can fire up to 982°C. Several light coats with a short waiting period of around 15 minutes between coats is preferable to one heavy coat. Shake the can well before use and hold the can upright while using to assure proper distribution of product. You will need to apply one light coat each time you fire.

# The process








## 1 Create your frit slurry

In previous mushroom tutorials, glass decorated with wet powdered frit ("Frit Slurry") were fired on dome mushroom moulds to create "Slurry Mushrooms" in one firing process. Because of the vertical nature of the GM209 Bell Mushroom, the frit slurry must be pre-fired to the glass and then the glass can be draped over the mould in a careful firing process. For greater detail regarding how to mix powdered frit with water and other tips for creating frit slurries check out the frit slurry tutorial.

The GM209 Bell mould can be used to drape glass ranging in size from 3" dia. to 6.5" dia. circles. It is not advisable to drape glass any larger than 6.5" in diameter.

## 2 Fire the glass over the mould

The Bell Slurry Mushrooms pictured in the main image were made by using a 6" dia. circle of Double Thick (6mm) clear, a 6" dia. circle of 3mm Black and a 4.5" dia. circle of 3mm clear with various frit slurries applied and fired to the glass flat on a kiln shelf over kiln shelf paper using the schedule found in Table 1. The fired glass was then placed over a GM209 Bell Mushroom mould treated with a suitable glass separator and fired using the firing schedule found in Table 2. It is important not to over fire the glass on the mould.

## 3 Attach the stem to the glass

The draped glass was removed from the mould when the kiln was cool.

An engraving tool (or other tool) was used to abrade the top inside section of the glass to help the epoxy to adhere. The glass was placed in a cup to help keep the glass level and upright. A small portion of mixed two part epoxy was placed in the top inside section of the glass and a size 14-4 copper crimp butt splice was placed in the epoxy. A section of 1/4" OD copper coil was cut using a pipe cutter and when the epoxy was set, the copper tube was placed inside the copper crimp butt inside the mushroom cap.

## Table 1 Fuse Slurry on 3mm & 6mm

| Segment | Rate Celsius/hr | Temp | Hold time (hr:min) |
|---|---|---|---|
| 1. | 166°C/hr | to 657°C | 0:20 |
| 2. | 27°C/hr | to 676°C | 0:20 |
| 3. | 194°C/hr | to 771°C | 0:10 |
| 4. | AFAP* OR 9999°C/hr | to 510°C | 1:00 |

## Table 2 Drape 3mm & 6mm over GM209

| Segment | Rate Celsius/hr | Temp | Hold time (hr:min) |
|---|---|---|---|
| 1. | 138°C/hr | to 648°C | 0:20 |
| 2. | 194°C/hr | to 704°C | 0:05 |
| 3. | AFAP* OR 9999°C/hr | to 510°C | 1:30 |
| 4. | 55°C/hr | to 260°C | 0:10 |

*AFAP = as fast as possible, some controllers will not allow a rate of 9999°C /hr
**It is important to use as little heat as possible to drape over ceramic moulds. Too much heat in this segment can cause the glass to cling too tightly to the mould. Adjust this temperature if needed for your kiln.

Note:
This data is a guide only, firing programs may need to be adjusted according to size and thickness of glass and the kiln's performance. Ensure that data is entered into the controller accurately, otherwise glass may not fuse correctly or paint will not fire onto the glass as desired. Creative Glass Guild sells all glass, tools and materials on the basis that customers have the knowledge and ability to use them safely and in accordance with all relevant regulations and legislation.