



Caterpillars BUZZING BEES AND LOVELY LADIES

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For all the Bugs Bodies:

Before you use your mold spray it liberally with ZYP glass separator spray. Make sure to spray in the mold cavities so that your glass wont stick during firing.

You will need:

- CPI Mold LF145
- Zyp Glass Separator Spray
- Powder Vibe/Powder Sifter for F1 frit
- Ear Wax Vacuum
- A color assortment of your preference glass frit. Frit used for the glass bugs pictured is COE96 Uroboros and the colors used are mentioned in the text.

Use F1 Black Frit in a powder vibe (image 1) or an other method to add powder frit to the following areas in cavities of the mold - the bee legs and top of head, top of chest, and stripes- Lady bug head and stripe in center, low center dashes in caterpillar if desired (image 3). Use an ear wax vacuum or small brush to clean up powder outside of the desired areas (image 2).



Image 3



Image 1



Image 2

Adding Black Powder Frit to the bodies of the bugs is optional. You can change it up a little! This is shown in the Caterpillar steps seen below in this tutorial.

How to make Spots!

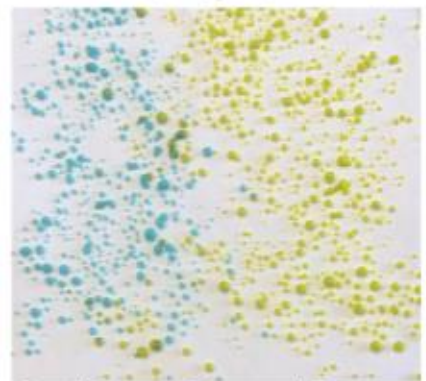
To create spots for the lady bugs and caterpillars (caterpillar spots optional) Place kiln shelf paper on a tile and spread Medium Grain Black Frit so that the grains are separated (image 4). Choose a fun bright color such as Lemon grass and/or Turquoise Blue and do the same with medium grain frit of those colors. Fire the black and colorful medium grain frit in a kiln at 500 degrees/hour to 1480 hold 10. Allow the kiln to cool naturally. When you open the kiln you will find tiles filled with whimsical dots! (image 5).



Image 4



Image 5



Fired Lemon Grass and Turquoise Blue Frit

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Image 6

For the Ladybug Bodies:
Place a pinch of clear fine frit in the bottom layer of the ladybug cavities (image 6). Choose a number of tiny Black spots made in the "How to make Spots" step of this tutorial. Arrange the tiny spots in the fine clear frit at the bottom of the Ladybug cavities (image 7).



Image 7

Cover the black spots and clear frit with a small layer of Fine Light Cherry Red frit (image 8).

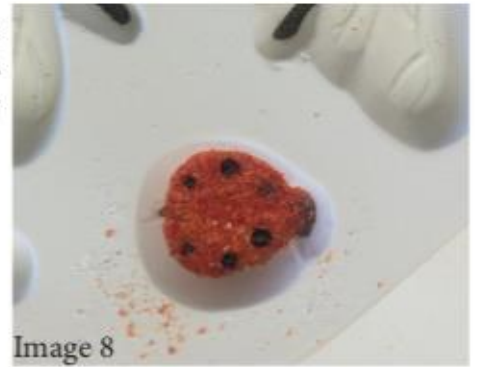


Image 8

Cover the Light Cherry Red frit with a very thin layer of Fine Marigold frit (image 9).



Image 9

Fill the remainder of the cavity with Medium Light Cherry Red frit (image 10). Look to table 3 for recommended frit weights.

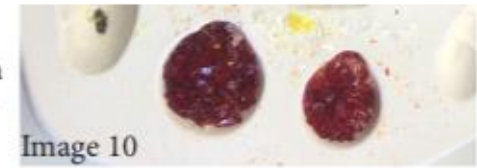


Image 10



Image 11

For the Bees Bodies:
Sift a bit of powdered Medium Amber frit into the chest and body and inside area of the wings of the bees (image 11).

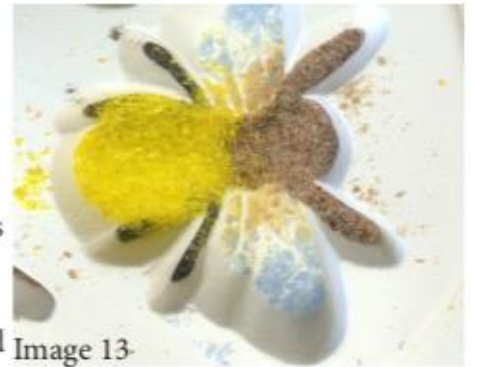


Image 13

Place fine Sapphire Blue in the edges of the wings (image 11/12).

Place Fine Chestnut opal in the head and top body segment and over the black in the legs (image 12).



Image 12

Place Fine Yellow Opal in the bottom body segment (image 13).

Place Medium Grain Clear Frit over the colors in the bee cavities. Fill as shown in the photos or to measure by weight (image 14). Look to table 3 for recommended frit weights.



Image 14



Image 15

For the Caterpillar Bodies:
There are a few different ways you can make the Caterpillars.

If you want to skip the step where you add black powder into their bodies you could instead sift Orange Opal in the center dashes of the Caterpillars body (image 15).



Image 18



Image 16

If adding small dots to the Caterpillars add a thin layer of Fine Clear to the bottom cavities. Arrange the dots into the Clear frit (image 16).

Add a layer of contrasting powder over the dots (image 17). Then place a layer of contrasting Fine Opal frit over the spots in the cavities (image 18). Finish filling the Caterpillar cavity with a contrasting fine frit color.



Image 19



Image 17

Look to table 3 for recommended frit weights.

When you are done adding frits to the mold fire it using our full fuse schedule in table 1*.

Table 1* Full Fuse

Segment	Rate	Temp	Hold
1	275	1215	45
2	275	1465	05
3	9999	950	60

* Remember that every kiln fires differently and you should fire at whatever full fuse has worked for you before. [For more info click here.](#)



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There are many uses for the little bugs you make in your LF143 mold. This Bee happily buzzes and bounces all around the center of his flower. To attach a Bee to a flower cut a 8-9" piece of 18 gauge bare copper wire. Stick 1/2" of one side of the wire into the frit of the Bee before firing. Cut a 1" circle of glass and another 3/4" circle place the free end of the copper wire between the two pieces of glass on a piece of kiln shelf paper on the kiln shelf or tile next to the mold (image 1). The circles will fuse together and the wire will be included in the Bee and in the glass circle. The glass circle can then be glued to the middle of the flower hiding the screw that was used to add the flower to the stem and creating a whimsical flower accent!

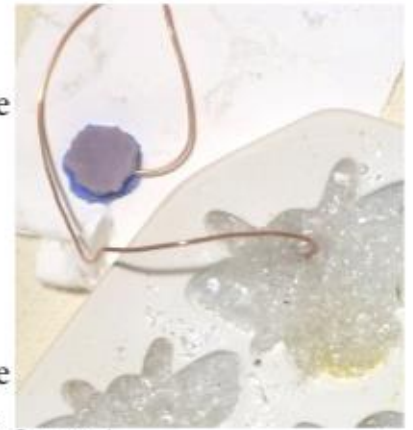


Image 1



Image 2

Table 3
Recommended Frit Weights

Mold Cavity	Weight in Grams
Large Bee	17 g
Medium Bee	15 g
Small Bee	10 g
Large Caterpillar	4 g
Small Caterpillar	3 g
Large Ladybug	2 g
Medium Ladybug	1.5 g
Small Ladybug	1 g

This Bee was made using the same directions as those in this tutorial. After the Bee was fired he was tack fused onto a pre fused and slumped flower. The Ladybugs shown on the leaf in this tutorial were also tack fired onto a pre fused leaf. The tack firing schedule we recommend for the bugs is in table 2*.



Table 2* Tack Fire

Segment	Rate	Temp F	Hold
1	275	1215	20
2	50	1250	30
3	275	1330	10
4	350	1410	5

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