FUS GM107, FUS GM108
Spiral Appetizer and Dip Slump Bowl Tutorial
by Rayette (Raye) Wilensky

Materials:
ZYP glass separator/ High Fire Shelf Primer
CPI Molds FUS GM 107 and FUS GM 108
COE 96 Adventurine Green Fine frit,
Adventurine Green/Clear Spirit Sheet 12 X 10 sheet glass, nipped and cut Cherry Red Transparent Irid, Adventurine Green, Clear Cord, Wissmach Dichro
Safety Glasses, face mask, glass nipper
Optional: Lazy Susan

Place both molds on a Lazy Susan and spray 3 coats of ZYP in 15 minute increments, turning between each coat to assure full coverage. Five coats of High Fire Shelf Primer also works quite nicely (image 1 Gm107 and GM108 Molds).

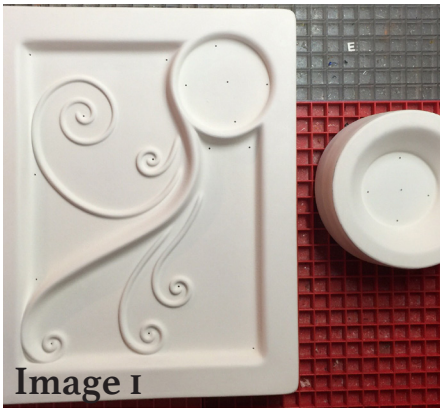
Image 1

The Spiral Appetizer mold measures 12 1/2" X 10", however, this tutorial is written to accommodate one 12" X 12" sheet cut to 12" X 10" and a top design of small cut and nipped shapes. This tutorial is easy convertible to accommodate 2 full sheets of 12 1/2" X 10" with a design on top.

Cut the base glass to 12" X 10" and center on top of the Spiral Appetizer mold. Preferably at waist level to allow you to look down and see the lines in the mold. For this reason transparent base glass is preferred. Use a black sharpie pen and place dots to trace the spirals and bowl positions on the sheet glass which will help you in placing the top design pieces (image 2). The black sharpie marks will burn off in the fuse.

Image 2

Remove the glass from the mold and elevate on a Lazy Susan for ease in placing your design. I use a jar lid to elevate the glass for ease in removing finished design to the kiln.

Determine the color scheme you wish to use and begin cutting or nipping your pieces. I prefer rummaging through scrap glass to conserve my sheet glass. Cut as many 2" X 1" petal shapes out of various colors until you have enough for your design (image 3 & 4).

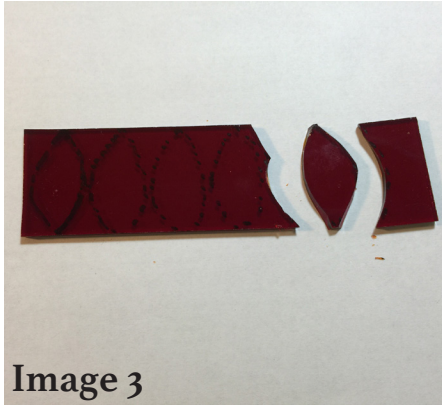
Image 3

Using the same colors, use nippers to nip as many randomly sized pieces you may need including dichro if desired. (Side note: I place all cut pieces in a bowl of 91% alcohol, stirring several times to clean, then drain and dry ready to use as seen in image 5).

Working from the center out, first place 2 X 1" petals on the dotted line of the long center spiral from the bowl area to the end corner. The ovals are large enough to cover the general area of where the glass will slump negating the need for exact placement. Leave the smaller spirals blank as the lines will be clearly visible in the glass after slumping. If desired add nipped pieces or frit on top of the ovals to enhance your design (image 6).

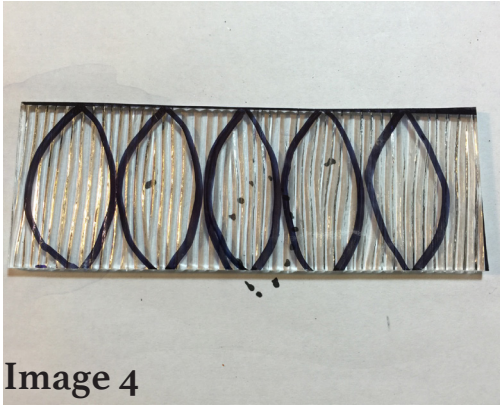
Image 4

Next, place cut ovals and nipped pieces around the edges of the glass using the sharpie marks as a guide for placement. Avoid placing pieces over a spiral to keep it visible after the slump. Place nipped pieces on the sharpie marks outlining the area in which the bowl will sit for a unique design enhancing the set. Have fun with the design moving and changing the pieces until you have perfected the desired result (image 7). (Note: Place design pieces close to the edges of the glass to minimize dog boning. This piece was not coldworked in order to display the results of not doing so).

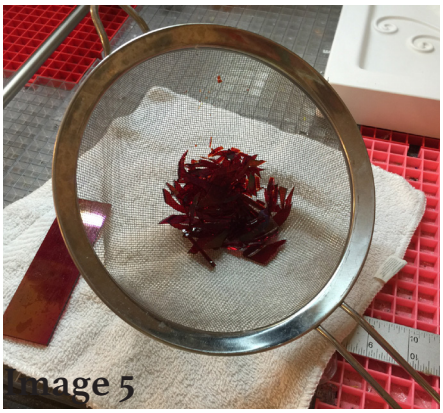
Image 5

Now that the tray design is complete take alcohol and a cotton swab to gently remove non-decorated sharpie marks. The remaining will burn off in the fuse. If desired use tiny amounts of hairspray or fusing glue to hold pieces in place while moving from work table to the prepared kiln shelf.

Image 6

Dip Slump 5" bowl:

When using a one 3mm layer base a Tack Fuse is preferred in order to maintain the overall shape of the design. For this reason the bowl is created in layers that will not need to be full fused. Cut a 5" circle for the base and a 4" circle for the top design.

Cut the 4" circle into 3 or 4 pieces and place on top of the base leaving gaps in between the pieces (image 8). Place the remaining nipped pieces used in the tray design between the gaps until you have the desired design (image 9). Again, use tiny drops of hairspray or fusing glue to hold the pieces in place from work table to prepared kiln shelf.

Image 7

Option: Sift a light layer of clear powder over the top design of each piece if desired as a cap.

Place the bowl and tray glass on a prepared kiln shelf then Tack Fuse (image 10).

My Evenheat Studio Pro 24 Tack Fuse Schedule for this design is as follows:

350/1100/20
350/1225/30
9999/1380/10
9999/950/1.30 (I anneal one hour for every layer and 30 minutes for 1/2 layer)
150/800/.30 off

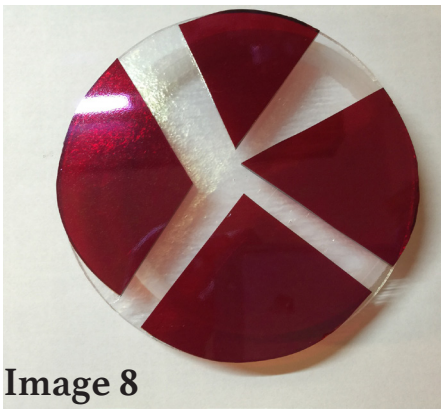
Image 8

Remove fused glass from the kiln when room temperature is reached then clean both pieces with dishwashing soap and dry. Place the prepared molds in the kiln. I prefer to use 1/2" kiln posts to elevate the molds to allow even air flow.

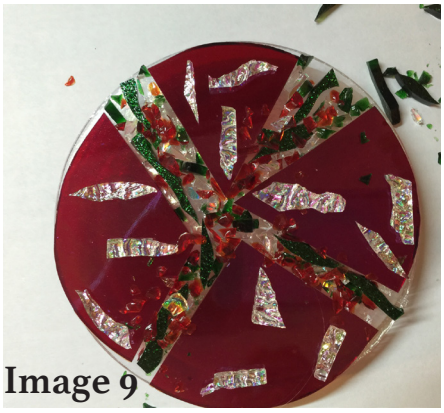
Image 9

Center each fused piece on their respective molds then use a small hand held leveler to assure the glass is level in the molds.

Slump to the following schedule used in my Evenheat Studio Pro 24:

300/1200/5
50/1225/30 (small bubble squeeze and slow ramp to this temp to ease the glass into the mold)
9999/950/2.00 (increase time in a 2nd fuse)
150/800/.30 off to room temp

Image 10

For a 12 1/2" X 10" two layer piece the only change is to cut the top layer 1/8" larger than the base, sift clear powder between the layers, add design on top then full fuse increasing top temp and anneal time. Increase top slump temp to 30 minutes and add 30 minutes to anneal time.

Fused and Finished Piece

For more information or if you have questions about this tutorial please email Raye: raye.wilensky@gmail.com

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