

Michelle Rial

Experiments with Compression & Powdered Glass/Gel blend

I have been looking for different products to create lines. I experimented with Carboxy methyl cellulose years ago, and I figured that it would be a good time to try it again. I made up a couple gel bases using 2 slightly similar methods which I found online. I thinned out the base, added black powder, and squeezed it on one of my compression artworks “I241 Eclipse”. It had interesting effects under the layer compression, so I decided to make Mag-less samples for you to use as a reference. Bullseye glass 90 COE used



“Eclipse”



“Mag-less example”

I bought my CMC from TheCeramicshop.com years ago, but there are other places online. It is deemed safe and acceptable as a food additive.

1. Base CMC gel- Listed will be the amounts I used shown in the photos.

And there are other ways to make the mix, which can be found on the internet.

2 TB. Carboxy Methyl Cellulose (CMC)

Add drops of Isopropyl Alcohol to wet, so it looks like sand.

Add 14 TB of 130-degree Water, mix, and set aside for hours or overnight.

2. This gel is very thick, so for my use with a tiny tipped bottle this had to be thinned out.

1 part thick base CMC Gel to 5 parts Water

3. Basic colored glass powder and gel mix.

1 part thinned CMC Gel to 4 parts 0100-08 Black Powder

4. Add more Water if necessary to reach the thinness needed, so it can be squeezed out.

5.-6. I used small bottle with the plastic tip on 1-½” Clear-30 (Tekta) square glass bases.

7. Added colored pieces to the top of CMC lines. Not fired yet.

8. Added another 1-½” Clear-30 on top and Final layer 1-½” 0113-30 White piece.

9. Placed the assemblies on a pre-fired primed shelf, adding pieces of 1/4" Fiber at the corners to keep the shelves from contacting. And then added another pre-fired shelf on top, with the primer down. Brick weights were added. Mine total to 31 pounds. Firing Program #1

10. This photo shows the first fired step.

11. Here they are flipped up. No resizing has been done.

12. Sifted 1101-08 Clear Powder is layered over the surface.
Another line or lines of CMC Gel is squeezed on top.

13. Final firing on pre-fired primed kiln shelf. Firing Program #2

14. Finished.

No grinding or cutting was done, so you can see how the layers affect the final size. Notice how the first CMC Gel lines diffuse and spread within the layers and how the CMC Gel lines on top of the powder stay thinner.

Firing Program #1

300-900-30 minutes
300-1100-30 minutes
300-1225-2 hours
300-1300-1 hour
300-1525-3 hours
9999-1300-1 hour
9999-1225-1 hour
9999-900-1 hour
100-750-0

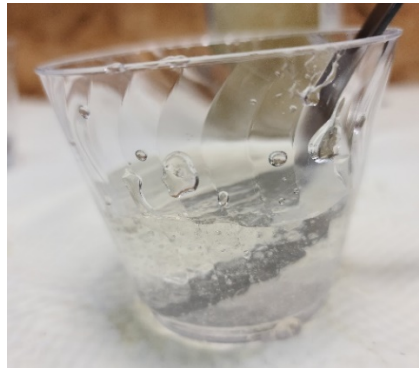
Firing Program #2

200-900-45 minutes
200-1100-45 minutes
200-1225-2 hours
200-1300-2 hours
200-1420-20 minutes
9999-1300- 1 1/2 hours
300-1225-2 hours
300-1100-45 minutes
100-750-0

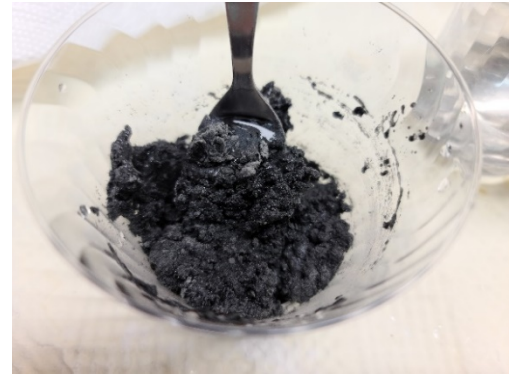
HAVE FUN !!!!! EXPERIMENT



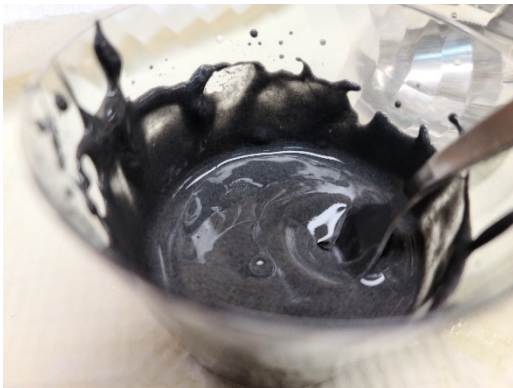
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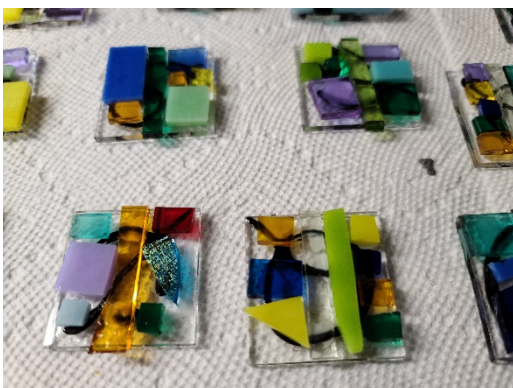
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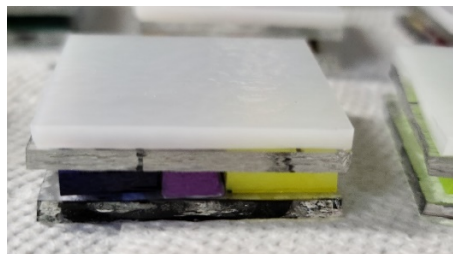
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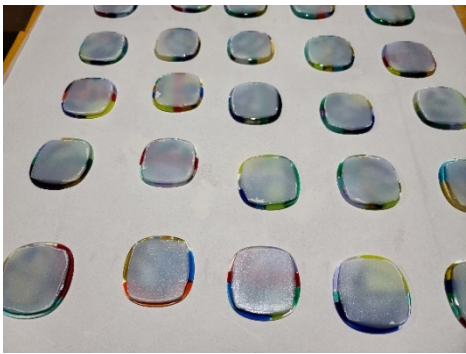
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