# Priscilla Hollingsworth/glazes used at Augusta State University last revised November 13, 2008

# **LOWFIRE**

	ty Glaze - BB 1 cone 04			
30 50	gerstley borate kaolin			
	cryolite			
100				
descri	iption: matte, brown, with big, uneven cracks			
Crust	ty Glaze - BB 2 cone 04			
40	gerstley borate			
10	kaolin			
	cryolite			
	titanium dioxide			
100				
	iption: matte, yellowish, with even cracks			
	ty Glaze - BB 3 cone 04			
20	$\mathcal{E}$			
	kaolin			
	cryolite			
20	titanium dioxide			
100				
	iption: matte, yellowish, with even cracks			
	ty Glaze - BB 4 cone 04			
34				
	cryolite			
	titanium dioxide			
100				
	iption: matte, yellowish, cracks are even but fewer in number			
<u>Jacki</u>	e's Base Glaze cone 04			
38 gerstley borate				
10 lithium carbonate				
5 nepheline syenite				
5 EPK				
42 silica				

Add 5% zircopax

A versatile, strong semi-matte glaze. Takes colorants well.

# Jackie's Base Glaze Color Tests (use ONE set of these possibilities to make the base glaze a specific color)

#### 1. BLACK

- 2.2% cobalt oxide
- .6% chrome oxide
- 2.6% iron oxide
- .8% manganese dioxide

#### 2. WHITE

25% zircopax

#### 3. PURPLE

12.0% blackberry wine stain .2% cobalt carbonate

#### 4. CREAM YELLOW

12% rutile

#### 5. GREEN

2.5% chrome oxide

#### 6. TURQUOISE BLUE

3.5% copper carbonate

#### 7. ROBIN'S EGG (Jackie's Base)

2% copper carbonate3% yellow stain

#### 8. BROWN

12% red iron oxide stain

#### 9. OTHER COLORS

10-20% Mason stain

#### Pete's Purple Glaze cone 04

- 40 barium carbonate
- 19 EPK
- 19 nepheline syenite
- 10 silica
- 5 lithium carbonate
- 7 copper carbonate

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100

add 3% bentonite

Dry matte glaze with intense barium - copper blue color. VERY TOXIC - don't use on potsl

# Bettelou's Color Variations on Pete's Purple cone 04

Note: use the Pete's Purple recipe, but omit the 7% copper carbonate.

#### 1. BLUE

.4% cobalt carbonate 12% zircopax

### 2. ROBIN'S EGG BLUE (Pete's Purple Robin's Egg)

2% copper carbonate 3% yellow stain

#### 3. YELLOW (toward green)

2.5% chrome oxide

## 4. CREAM

12% rutile

#### 5. OTHER COLORS

15-20% Mason stain

### **Transparent Glaze cone 04**

1 silica

2 EPK

3 gerstley borate

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6 parts by weight

A sturdy, dependable clear glaze.

#### Transparent Glaze to fill a bucket

833 flint

1667 EPK

2500 Gerstley borate

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5000 grams

# COLOR TESTS FOR TRANSPARENT GLAZE cone 04

# To 1 cup of liquid glaze, add:

#### 1. YELLOW-BROWN

4 tsp. vanadium pentoxide

2 tsp. zircopax

#### 2. YELLOW

3-4 tsp. yellow stain

2 tsp. zircopax

#### 3. CHARTREUSE

3 tsp. chartreuse stain

2 tsp. zircopax

#### 4. BLUE-GREEN

1 tsp. copper carbonate

### **5. DARK GREEN**

1 tsp. copper oxide

#### 6. SEA GREEN

1 tsp. copper carbonate

2 tsp. zircopax

#### 7. ARMY GREEN

1 tsp. potassium dichromate

#### 8. BLUE

1.5g cobalt carbonate

#### 9. DARK BLUE

1 tsp. manganese dioxide

1/4 tsp. cobalt carbonate

1 tsp. zircopax

#### 10. OTHER COLORS

3-4 tsp. Mason stain

2 tsp. zircopax

(tested by Bettelou Brown)

## **Super Slip cone 04**

1 F-4 feldspar

1 silica

1 EPK

1/2 ball clay

1/2 nepheline syenite1/8 gerstley borate4 1/8 parts by weight

It's called "Super Slip" because it goes on clay in any state. White, dry surface. Try color variations. Use under a clear or colored transparent glaze. Mix with glazes to make them

more matte.

#### Super Slip in a standard bucket gram weight batch – cone 04

1260 F-4 Feldspar

1260 Flint

1260 EPK

630 Ball clay (OM4)

630 Nepheline syenite

158 Gerstley borate

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5198 grams

## Blue Super Slip Batch – cone 04

1260 F-4 Feldspar

1260 Flint

1260 EPK

630 Ball clay (OM4)

630 Nepheline syenite

158 Gerstley borate

126 Cobalt carbonate

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5234 grams

### Green Super Slip Batch - cone 04

1260 F-4 Feldspar

1260 Flint

1260 EPK

630 Ball clay (OM4)

630 Nepheline syenite

158 Gerstley borate

167 Chrome oxide

250 Rutile

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5615

# Creamy Yellow Super Slip Batch - cone 04

- 1260 F-4 Feldspar
- 1260 Flint
- 1260 EPK
- 630 Ball clay (OM4)
- 630 Nepheline syenite
- 158 Gerstley borate
- 250 Rutile

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5448

### Fat Yellow Glaze cone 04

- 85 frit 3124
- 10 EPK
- 5 flint

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100

Add 8% yellow stain

Add 3% bentonite

A shiny, uniform glaze. Be sure to sieve twice through a fine screen. Substitute other colors of stain (pink and purple are interesting)

#### **Smooth Icing Glaze cone 04**

- 50 frit 3124
- 40 F-4 feldspar
- 10 whiting

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100

Add bentonite 3%

Add stains for color.

This is a thick, semi-matte glaze with the uniform consistency of a confectioner's sugar icing.

#### **Amber Yellow Glaze cone 04**

- 34 gerstley borate
- 37 custer feldspar
- 14 barium carbonate
- 15 flint

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100

Add 4% black iron oxide

A transparent, shiny glaze to use on red clay - mimics old lead glazes.

Not tested for barium release - be careful.

### MJ's foam glaze cone 04

70 frit 3110

10 wollastonite

20 bone ash

5 frit 3124

5 EPK

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100

A bizarre specialty glaze. Mix in small amounts only - this recipe settles like a rock. Add colorants.

For purple: add 5% manganese dioxide.

#### Batz Majolica Glaze cone 04

100 frit 3124

4 barium carbonate

15 EPK

20 zircopax

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139

Add 3% bentonite

Add .25% tan stain to modify whiteness. This is a thick, white, shiny base glaze. It is meant to be used with overglaze colorants. To mix the overglaze colors, add 1 tsp. stain or oxide and 1 tsp. frit 3124 to a cup of water.

## Weird Glaze cone 04

50 wollastonite

50 gerstley borate

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100

For a yellowish green, add 6% copper carbonate.

For a jade green, add 4% chrome oxide.

Also tryother colorants.

A semi-matte glaze with surface varriations

#### Yellow-Tan Wash cone 04

Note: parts by VOLUME

- 3 gerstley borate
- 1.5 zircopax
- 2 rutile

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#### 6.5 parts by volume

Add ingredients to a large amount of water - this mixture should be thin. A dependable dry surface with yellow-to-tan color variations.

### Red Wash cone 04

Note: parts by VOLUME

- 1 EPK
- 2 red iron oxide
- 3 gerstley borate
- 1.5 zircopax

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7.5 parts by volume

### **Crusty Glaze Surface cone 07-cone 04**

- 70 gerstley borate
- 30 titanium dioxide

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100

For green, add 6% chrome oxide.

For blue, add 5% cobalt carbonate.

For tan, add 7% rutile.

For yellower mix, add 5% yellow stain.

For gold, add 10% old gold stain.

A very dry, crusty yellow surface with cracks. Apply very thickly.

#### Loose Skin Crawl Glaze cone 04

- 20 frit 3195
- 30 kaolin
- 50 cryolite

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100

For gray/silver, add 5% copper carbonate and 2% cobalt oxide (A specialty glaze - like it sounds.)

#### Gooky Crinkly Glaze cone 04

- 30 frit 3195
- 50 kaolin
- 20 cryolite

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100

For blue, add 8% copen blue stain. (If copen blue is not available, try 1.5% cobalt carbonate.)

For chartreuse, add 3% copper carbonate and 4% yellow stain.

(A specialty glaze - like it sounds.)

#### White Shiny Glaze cone 04

- 60 frit 3124
- 15 ball clay
- 15 flint

100 Add 3% bentonite. Can be used as a majolica-style glaze.  Watershed Stone cone 04 25 ball clay 25 EPK 25 gerstley borate 25 flint 15 lithium carbonate  115 Add 5% granular ilmenite after sieving. A dry, stony surface.  Wash of Pink cone 04 90 frit 3134 20 ball clay 20 zircopax  130 Add 3% bentonite. Add 7% rutile. Add 7% rutile. Add 7% rutile. This is a near-glossy glaze with a delicate pink cast and ilmenite specks.  Bates Blue cone 04 25 borax 25 spodumene 50 EPK  100 2% cobalt carb.=deep blue 5% copper carb.=mottled green 5% iron=rusty brown 3% chrome=rich green 1% cobalt carb. + 3% chrome=teal					
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Bates Blue cone 04  25 borax  25 spodumene  50 EPK  100  2% cobalt carb.=deep blue  5% copper carb.=mottled green  5% iron=rusty brown  3% chrome=rich green	Add 2% ilmenite				
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25 spodumene 50 EPK  100 2% cobalt carb.=deep blue 5% copper carb.=mottled green 5% iron=rusty brown 3% chrome=rich green	Bates	Blue cone 04			
50 EPK  100  2% cobalt carb.=deep blue  5% copper carb.=mottled green  5% iron=rusty brown  3% chrome=rich green	25 b	orax			
100 2% cobalt carb.=deep blue 5% copper carb.=mottled green 5% iron=rusty brown 3% chrome=rich green	25 spodumene				
100 2% cobalt carb.=deep blue 5% copper carb.=mottled green 5% iron=rusty brown 3% chrome=rich green					
5% copper carb.=mottled green 5% iron=rusty brown 3% chrome=rich green					
5% copper carb.=mottled green 5% iron=rusty brown 3% chrome=rich green	2% cobalt carb.=deep blue				
5% iron=rusty brown 3% chrome=rich green	<u> •</u>				
3% chrome=rich green	• •				

# **SBSU White Crawl cone 04**

3.88 borax

46.51 gertsley borate

31.01 magnesium carbonate

18.60 EPK

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100.00

Add 5.43% zircopax

#### Jernegan Crusty Matte cone 05- (04)

40 EPK

40 borax

20 flint

4 copper carbonate

1 cobalt carbonate

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105

## Water Blue cone 04

76.3		frit 3110
5.7		gerstley borate
7.1	<b>EPK</b>	
10		flint
2		bentonite

101.1

Use over white slip unless you want a very dark color

#### **COLOR VARIATIONS for Water Blue (use only ONE per batch of plain glaze)**

4.5% copper carbonate=turquoise

5% copper carbonate + 3% cobalt carbonate=deep blue

5% vanadium=yellow (or try yellow stain)

4% manganese dioxide + 1/2% cobalt carbonate=purple

5% manganese=burgundy purple

6% rutile=vellow

6% red iron oxide=deeper yellow

#### Suede cone 06-04

80 GB

20 bone ash

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100

# Terra sigillata cone 04

1170 EPK

230 ball clay

7 calgon

14 cups of water

Mix all the ingredients and let sit overnight. The next day decant the middle layer and throw the rest away (or put it into the recycling bin.)

Terra sigillata means "earthseal" in Latin. It is a very thin slip made of fine particles of clay. Apply it to bone dry clay that you have dampened a little (a spray-bottle works

well). As the terra sigillata dries on your piece burnish it with a piece of an old t-shirt. You can make various colors by adding oxides and stains to the base recipe.

# Adam's Dense Black cone 06-04

- 24.6 nephelene syenite
- 15.2 gerstley borate
- 17.8 barium carbonate
- 9.7 lithium
- 24.6 flint
- 8.1 EPK
- 10 black stain
- 2 black copper oxide
- 4 black iron oxide
- 1 cobalt oxide

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#### Michelle's Bubble Glaze cone 04

- 30 frit 3195
- 30 EPK
- 40 cryolite

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100

Add 5% manganese dioxide.

## Archie Bray Black Slip cone 04

- 500 Redart clay
- 250 ball clay
- 150 manganese dioxide
- 120 black stain
- 50 black iron oxide

1070

# BB's Amazing Slip III

- 34 Frit 3124
- 33 EPK
- 33 Silica

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100

A white slip that goes on bisque or greenware. Goes over glazes for interesting effects. Highfires well (but expect some colors such as pink to burn out in highfire).

To get colors of BB's Slip III, add one of the following variations to the basic recipe:

#### 1. Very Earthy Green

Add 14% rutile, 4% copper carbonate.

#### 2. Earthy Chrome Green

Add 15% rutile, 2.5% chrome oxide.

#### 3. Still Earthy Green

Add 3% copper carbonate.

#### 4. Bright Chrome Green

Add 2.5% chrome oxide.

#### 5. Nice Pink

Add 10% Deep Crimson Mason Stain #6006.

#### 6. Great Purple

Add 10% Pansy Purple Mason Stain #6385.

#### 7. Grey Blue

Add 1% cobalt carbonate.

### **BB's Amazing Slip IV**

- 34 frit 3124
- 22 talc
- ball clay
- 22 kaolin

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100

Like BB's Amazing Slip III, this slip goes on bisque or greenware. For strange effects, you can put it over glazes. It can be highfired (but be aware that some delicate stains, especially pink, will burn out at high temperature). In general, BB's IV makes more neutral colors than BB's III.

To get colors of BB's Slip IV, add **one** of the following variations to the basic recipe:

#### 1. Dull Pink

Add 10% zircopax and 10% Deep Crimson Mason Stain #6006.

#### 2. Grey Purple

Add 10% zircopax and 10% Pansy Purple Mason Stain #6385.

#### 3. Very Pale Yellow

Add 10% zircopax and 3% praseodymium Yellow Mason Stain #6433.

#### 4. Nice Grey Blue

Add 10% zircopax and 1% cobalt carbonate.

Following is a series of washes that can be fired to cone 04. A wash should be made extremely thin, like water. Used alone, it will reveal all the texture of your clay surface. Used underneath a glaze, it may affect the color of the glaze.

All of the BB Washes are made by volume rather than by weighing, so making them is quick and easy.

## BB's Tan Wash frit 3134 1 zircopax 3 rutile 5 **BB's Orange Red Wash** frit 3134 1 zircopax yellow iron oxide 3 \_\_\_\_\_ 5 **BB's Rust Brown Wash** frit 3134 1 zircopax 3 red iron oxide 5 **BB's Black Wash** frit 3134 1 1 zircopax 1 red iron oxide black iron oxide 1 1 manganese dioxide 5 BB's Grey Wash frit 3134 1 1 zircopax copper carbonate 5

# BB's Green Wash

1 frit 3134

1 zircopax
3 chrome oxide

5

# Jackie's Base Glaze with no gerstley borate (BB) cone 04

- 20 frit 3134
- 10 magnesium carbonate
- 8 borax
- 10 lithium carbonate
- 5 nepheline syenite
- 5 EPK
- 42 silica

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100

Add: 5% zircopax.

Add: 3% bentonite + flocs to prevent bad settling in the bucket.

This is Bettelou Brown's reformulation of the classic Jackie Rice base glaze, but without any gerstley borate in it. As of June, 2000, gerstley borate is no longer being mined. This variation preserves the waxy matt surface and the good color response of the original glaze.

#### BB's Crusty Cracks I - cone 04

- 34 magnesium carbonate
- 43 frit 3134
- 19 nepheline syenite
- 14 kaolin

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110

Brushed on thick, it gives big cracks. A thin application gives a matt surface with cracks in some areas. Color: white. Try adding 15% of a mason stain for good color.

#### BB's Crusty Cracks II - cone 04

- 34 magnesium carbonate
- 33 frit 3134
- 19 nepheline syenite
- 24 kaolin

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110

Brush on thin, one coat only!! Makes a matt surface with small cracks. If you put it on too thick, it will peel off after firing. Color: white. Try adding 15% of a mason stain for good color.

#### **Beaded Glaze - cone 04**

66.66 magnesium carbonate

53.34 borax

66.66 gerstley borate

13.35 flint

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This is a wild glaze. Applied thickly in just the right way, it crawls and beads for an interesting effect. The plain recipe is tan.

For the following color variations, add the specified ingredient to the base recipe:

#### 1. Blue Bead

Add 2% cobalt carbonate.

#### 2. Kelly Green Bead

Add 2% chrome oxide.

#### 3. Teal Bead

Add 1% cobalt oxide + 1% chrome oxide.

#### 4. Cracked Lime

Add 2% nickel oxide. The surface of the glaze will be a little drier - more cracked than beaded.

#### 5. Dark Cracked Tan

Add 2% yellow iron oxide. The surface of the glaze will be a little drier - more cracked than beaded.

#### **Icy Opaque Matte - cone 04**

30 Frit 3124

30 EPK

40 Whiting

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100

Add: 3% bentonite

Flocs (this glaze really sinks to the bottom of the bucket if you don't use bentonite and flocs).

For colors, try adding:

4% stain

or 3% raw oxides

For specks: After sieving, add 4% granular manganese.