30 copies

STAPLED AND COLATED

MAIOLICA GLAZES

Walter Ostrom

The following leadless maiolica glazes might fit your claybody and give you the surface you are after. An alternative is to develop your own glaze from a simple 21 point, triaxial blend using 3 of the following glazes.

- Note: All these glazes fire harsh white 1/4% additon of rutile or yellow stain will give a warmer tint. For a harder, cooler, white, add blue stain.

STAINS that are too refractory to use by themselves can be mixed with frits 3124 or 3292 or 3185 in the ratio of 40/60 (stain/frit). Adjust more or less frit to get desired degree of melt. Copper Carbonate is good by itself. Also copper, cobalt and manganese sulfate mixed as saturated solutions. Wtih the exception of the sulfates, suspend the above in MM (maiolica mix) to keep in suspension and make smudge-proof.

MM-Maiolica Mix add CMC Gum syrup, Ben Aqua/Macaloid jello and water in a 1:1:2 ratio and adjust if necessary.

CMC Gum-use 15ml/500ml or 3tsp/2 cups hot water to make gum solution syrup. Dilute further with water to spray on newly glazed ware to "size".

Ben Aqua/Macaloid-colloidal magnesium alumina silicate. 20ml/500ml hot water or 4tsp/2 cups hot water to make almost jello. Keeps materials in suspension. Can be added 1/4% dry to glaze for suspension. Sometimes added 1/3-2% dry weight to clay for plasticizer.

Epsom Salts - can be used to suspend glazes or colours. Make up a solution of 1 part Epsom Salts to 3 parts water and add as needed.

Batz Adjusted Cone 05

3124	80	Notes: _____
Whiting	6	_____
EPK	14	_____
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	100	_____
Zircopax/superpax	15-20%	

Andrea Gill's WOM C 05-04

3124	77	Notes: _____
Whiting	7	_____
Kona F-4	14	_____
EPK	2	_____
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	100	_____
Zircopax	10	
Tin Oxide	5	
Bentonite	1	

Dark White Cone 05-04

Frit 3124	48	Notes: _____
Frit 3292	23	_____
Whiting	6	_____
EPK	10	_____
Zircopax	13	_____
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	100	_____

Linda Arbuckle Cone 04 *

Frit 3124	57.16	Notes: _____
EPK	9.40	_____
Kona F-4	14.98	_____
Bentonite	1.2	_____
Zircopax/superpax	8.5	_____
Tin Oxide	4.5	_____
Neph Syenite	5.42	_____
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	101.16	

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NSCAD Glaze Update

Ostrom

All glazes screened from coarse through 80 mesh when making up;thereafter through 60 me at time of application. (Slips through 60 and 40 mesh)
CMC solution: 5 tsp.CMC powder into vortex of 1 qt hot water in blender- dilute
The following leadless maiolica glazes fire from cone 05 to hard 04; to develope a glaze to fit your body between these temperatures, try a triaxial blend with the following glazes. Note that they all fire to a strong white so you might want to tint with 0.25% rutile or yellow stain.
To change the cone range just change one or more of the glazes used in the triaxial.

Batz Adjusted- 05 Cone 05

3124	80
whiting	6
EPK	14

Zircopax 15-20%

If the glaze settles, try V Gum or macaloid.

The glaze can be sized by adding CMC to the glaze or the CMC can be spritzed on after the peice is fettled. Allow to dry before decorating.

Andrea Gill's WOM 04

3124	77
whiting	7
Kona F-4	14
EPK	2
Zircopax	10
Tin oxide	5
Bentonite	1

Ann's Waxy 04-03

3292	80
flint	5
EPK	5
Whiting	10

Tin oxide 5% or 10% Zircopax

Stains that are too refractory to use by themselves, can be mixed with frits 3124, 3292 or 3185 in the ratio of 40/60 (stain /frit). Adjust more or less frit. Useful to add CMC gum solution or liquid starch to help flow and prevent smudging.
Note: these colour mixes can be used over or under glazes other than maiolicas.

Halifax White Slip 06-03 For applying to wet or leather hard clay.

to deflocculate:0.25% Sodium silicate/Darvan to 40% water and bring to cnsistentcy.

Ball clay	40
Talc	20
Neph. syenite	10
EPK	15
Frit	5

Adjust wet fit by adjusting ratio of plastics to nonplastics
Adjust fired fit (crazing) with frit

For less transparentcy add 3-5% Zircopax.

Deb's Clear 04-02

Frit 3134	30
Frit 3195	45
EPK	25

Excellent with colour; Apply thinly or will be cloudy

Ian's Clear Cone 04

Bentonite	3
Frit 3124	80
EPK	10
Neph Sy.	10- Ian uses this as a thick, semi matt glaze
Lithium Carbonaste	3 Ian adds the lithium and cryolite to flux the glaze and they
Cryolite	16 react well with and 'soften' commercial underglazes.

Ostrom
NSCAD glaze update

Birdsall/Worthington Clear -4-03

Gherstley Borate	55
Flint	15
EPK	30

Tint with 1-8	burnt umber
green - 3-6	~~calcium~~ copper carbonate
coral - 6	coral stain
yellow - 6	rutile

Fired to 03, the clear uncoloured glaze is tough, durable and fairly craze resistant.

John's Blue cone 04 - cone ~~6~~ 01
Crassic, crazey soda glaze. Intense colours

3110	76.3
Gherstley borate	5.7
EPK	7.1
Flint	10
CMC gum	1

Tourq	3	copper carbonate
Dark Tourq	6	" " " "
Blue	4	" " " "
	1/2	cobalt carbonate
Lime	2	copper carbonate
	1/8	chrome oxide

Best over white slip
Can overlap with G-76+8

Adding CMC gum (0.5%) or solution makes this glaze much easier to handle.

Jackeeze Matt -04

Add the lithium after screening the other ingredients.

Gherstley borate	35
Neph syenite	5
EPK	5
Flint	42
Lithium carbonate	8
Tin oxide	5
CMC gum	1

Green	3	copper carbonate
Blue	2.5	" " " "
	1/4	cobalt carbonate
Pink	5	pink stain
Grey	10	silver stain

Adding 5 - 10 % whiting along with stains (chrome-tin pinks, Victoria green, etc) that need the presence of calcium will enhance the color.

G-76 (J. Rice) Cone 03

Gherstley Borate	38
Pot Spar	37
BARIUM carbonate	14
11 Flint	11
1 Bentonite	1

BARIUM so not to be used on food surfaces. Fires over wide range of temps from very matt at cone 07.

1-8% Black Iron- at cone 03 or above exceptionally rich honey yellow or brown Combines well with John's Blue. If colour spots, ball mill the black iron.

Paul's Perfect Terra Sig (Rozman)

Water	80
Red Art	20
Darvan	0.4

Ball mill for 6-8 hours; syphon after 2 (2/3 top liquid water). Let settle for 12 hours and this time decant leaving coarse clay on the bottom