Staining & Glazing kit User Instruction

[Product Information]

It is suitable for zirconia full crown staining & glazing needs. This kit includes ABCD four main shades, 11 special effect shades, glaze and glaze liquid. Paste in each jar contains glaze, no need to apply glaze separately, one staining achieve ideal result. It features cream glaze, fine particle size, no need to mix powder and liquid before use, uniform staining. To make color and lustre achieve ideal result for full crown, color of each stain can be mixed at will. Use directly after mixing uniformly.

[Application]

Zirconia full crown, coping, porcelain fusion, glass ceramic, press ingots.

[Storage]

Store under dry environment, best temperature is 12°C~38°C.
Tighten the jar cover after using and put it in sanitary condition.

[Notes]

1.Do not pour out remaining glaze in jar.
2.Before each day’ s operation, mix paste and glaze uniformly to guarantee consistency and operation sense during use.
3.Paste in each jar contains glaze, no need to apply glaze separately.
4.Make sure to use clean and dry glaze pen.Do not mix water in paste. If mixed, after sintering, white vaporific particle is created.
5.In the process of mixing the paste, the appropriate amount of diluent should be added in a clockwise direction to ensure no bubbles in the paste.
6.Before staining, use steam or ultrasonic oscillation cleaning machine to rinse surface.

[Functional classification]

1.Transparent glaze：To adjust the color depth.
2.Diluent：To adjust the concentration.
3.Other colors: To adjust the color depth of restoration.

[Use method]

Take A2 for instance:
1.Choose A shade as base shade. On the basis of base shade, add match color to get A2 as color in cervical 1/3.
2.Add moderate glaze to cervical shade as transition color, achieving natural transition of crown color.
3.Use glaze plus blue in incisal or cuop. Moderate blue can improve transparency in incisal.
4.After staining of whole restoration is finished, check carefully,make up the deficiency to avoid any discolored place.

Sintering program of single crown, bridge of three-unit or less

Start temp	Drying time	Heating rate	Maximum temp	Holding time	Final temp
500℃	4min	50℃/min	820℃	2min	300℃

Sintering program of bridge above three-unit

Start temp	Drying time	Heating rate	Maximum temp	Holding time	Final temp
500℃	4min	30℃/min	820℃	2min	300℃

Shade composition

Color	Volume	Color	Volume	Color	Volume	Color	Volume
Orange	4g	Brown	4g	White	4g	Purple	4g
Blue	4g	Black	4g	Light brown	4g	Pink	4g
Terracotta	4g	Yellow	4g	Purple gray	4g	A shade	4g
B shade	4g	C shade	4g	D shade	4g	glaze	4g

1 bottle of Glaze paste diluent：25ml

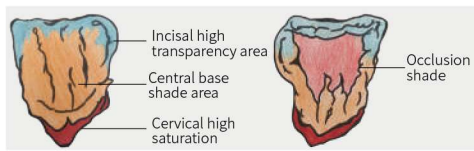
Shade use reference

	color	Use reference			
		Central base shade area	Cervical high saturation	Incisal high transparency area	Occlusion abrasion area
Base shade	A shade	■	■		
	B shade	■	■		
	C shade	■	■		
	D shade	■	■		
Effect shade	Brown	■	■		■
	White	■		■	
	Black	■	■	■	■
	Purple	■			
	Blue			■	
	Orange	■			
	Light brown	■			
	Pink	■			
	Terracotta		■		■
	Yellow	■			
	Purple gray	■			
	Glaze			■	

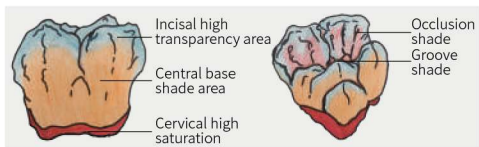
Base shade use

Area	Color	Ratio
Cervical high saturation	Base shade + brown/terracotta	3 : 1
Central base shade area	Base shade + effect shade	Adjust according to base shade
Incisal high transparency area	Glaze + blue	3 : 1
Occlusion shade	Terracotta	Use directly
Groove shade	Brown	Use directly

Anterior:



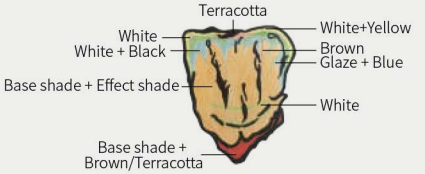
Posterior:

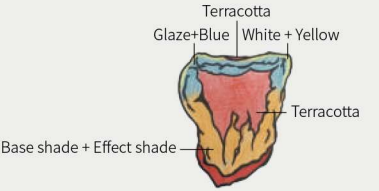


Customized color use

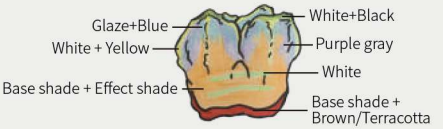
Color	Ratio
white + yellow	2:1
white + black	3:1
glaze + blue	3:1
base shade + effect shade	Adjust according to base shade
base shade + brown/terracotta	3:1
terracotta	use directly
white	use directly
brown	use directly

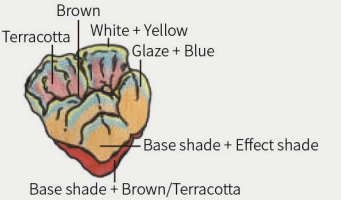
Anterior:





Posterior:





[Tips]

1.Color matching usage

Color matching usage	
White: drop color when base color is darker, special effect shade (white spot, band,etc)	Yellow: B shade, increase lightness (when color is more grey)
Blue: incisal color, increasing cold color	Pink: warmer color (for instance A shade, R shade), base shade is more gingiva greener
Brown: tartar color, dark reddish brown (for instance A3.5, A4), gingiva color	Orange:D shade, crown of more reddish base shade
Black: special effect shade, decrease lightness	Purple gray: incisal shade, decrease lightness, increase gray (C shade)
Purple: A shade, 3M1 4M1 5M1, gingiva shade	Terracotta: deepen cervical, occlusion
Light brown: all-match color	

Color	Match
green	blue+yellow
gray	white+black
fluorescence	white+yellow
crack	brown/terracotta
tetracycline	white/brow/black
white spot	white

2. When matching color, mixing tool mix following same direction to decrease possibility of creating air bubble.
3. Moderate viscosity. Low concentration will create flow. High concentration lead to color unevenness.
4. Avoid using too much paste one time, adopting principle of “take less one time, more times”.
5. When dealing with special effect, no need to add glaze liquid. Keep original consistency to have better plasticity.
6. For restoration that needs no staining, apply glaze directly.
7. After the restoration is finished, please check carefully to avoid of missing of coloring.
8. After sintering, if places that are not stained or with no good color are found, sinter again after re-staining.