

Technology Creates the Best Smile



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NMPA

Stain&Glaze



BSM Stain & Glaze Operation Manual

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Easy Operation

- With medium consistency, the paste will not fall apart or agglomerate easily.
- The paste can be applied evenly on the surface of zirconia and glass ceramics restoration.

Ultimate aesthetics

- The fluorescence component in the paste gives lifelike effect on the restorations.
- With the brightening component, coloring and glazing can be done at one time.



Art.No.	Shade	Application
BSC 1	A	Mainly composed of red, yellow and little gray, used for dentin shade.
BSC 2	B	Mainly composed of dark yellow, little red and little gray, used for dentin shade.
BSC 3	C	Mainly composed of gray and little yellow, used for dentin shade.
BSC 4	D	Mainly composed of yellow, gray and little red, used for dentin shade.
BSC 5	Glaze	Provides gloss with transparency to the surface of the restoration.
BSC 6	Yellow	Yellow based with little red. Applied to give a yellowish tint,can be mixed with the 4 dentin shade.
BSC 7	Brown	Composed of brown and gray. Applied to reproduce dark brown stain.
BSC 8	Light Brown	Composed of yellow, little red and little gray.
BSC 9	Black	Applied to decrease the value of the chroma, can be mixed with the 4 dentin shades.

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Art.No.	Shade	Application
BSC 10	Blue	Mainly applied to incisal part, to increase translucency.
BSC 11	White	Applied to create a crack effect, also for an opaque effect.
BSC 12	Pink	Applied to gingival area, also can be mixed with the 4 dentin shades.
BSC 13	Orange	Yellow based with a little red and gray shade.
BSC 14	Terracotta	Mainly composed of yellow and red, with a little black shade, applied to fissure.
BSC 15	Purple-gray	Purple based with a little gray shade, applied to incisal part, to increase the translucency.
BSC 16	Red	Applied to gingival area.
H	Blending liquid	Applied to adjust the paste consistence.



CTE	(25°C-500°C) $(10.3 \pm 0.5) \times 10^{-6} K^{-1}$
Chemical stability	$< 100 \mu g/cm^2$
Storage	Room Temperature
Product specifications	Paste:4g/bottle Blending liquid:25ml/bottle
Strength	$> 50 MPa$

Indications

- veneering ceramics
- glass ceramics
- zirconium oxide (frameworks and full-contour restorations)

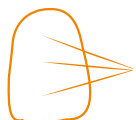


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Basic coloring



BSM



Step 1

Moisten the surface of the restoration by brushing appropriate amount of glaze liquid or paste. Avoid excessive brushing amount, otherwise the following coloring operations will be affected.



Step 2

Match with Aconia shade guide to determine whether the corresponding correction shade paste needs to be brushed on the whole restoration, then brush the corresponding dentin shade paste on the 1/3 cervical part to deepen the cervical shade.



Step 3

Brush blue paste (BSC10) on the marginal ridge and incisal edge to highlight the transparent effect.



Step 4

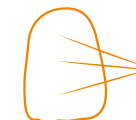
Use white paste (BSC11), orange paste (BSC13) and brown paste (BSC7) to create surface details, local white spots, pigmentation, etc.



Step 5

Firing.

Esthetic coloring



Step 1

Moisten the surface of the restoration by brushing appropriate amount of glaze liquid or paste. Avoid excessive brushing amount, otherwise the following coloring operations will be affected.



Step 2

Match with Aconia shade guide to determine whether the corresponding correction shade paste needs to be brushed on the whole restoration, then brush the corresponding dentin shade on the 1/3 cervical part to deepen the cervical shade.



Step 3

Brush Terracotta paste (BSC14) on the cervical part of the wide restoration to embellish the cervical.



Step 4

Draw lobes at the labial side of anterior restoration by brushing orange paste (BSC13) or yellow paste (BSC6) according to the shade scheme of the restoration.

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**Step 5**

Brush incisal halo and occlusal wearing points with orange paste(BSC13)



Brush incisal halo



Brush occlusal wearing point

**Step 6**

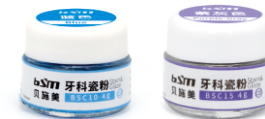
Brush lingual fossa and central fossa with light brown(BSC8) or brown(BSC7)



Brush fossa with light brown(BSC8)or brown(BSC7)



Brush anterior fossa with light brown(BSC8) or brown(BSC7), enhancing translucency of incisal edge and ridge with blue paste(BSC10)

**Step 7**

Make a firing after step 6 if a better result is required, glazing it after cooling, then enhance the translucency and scatter the incisal ridge and edge with blue(BSC10) and purple gray(BSC15)

**Step 8**

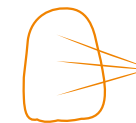
Enhance the translucency on incisal edge with purple gray(BSC15),mi-mick multi-layered porcelaining result.

**Step 9**

Treat the surface details, white pots,cracks, pigmentation with white(BSC11),orange(BSC13) and brown(BSC7)

**Step 10**

Glaze to improve the gloss effect.





Firing chart

Veneering ceramics & Zirconium oxide								
	Stand-by Temp. (°C/°F)	Drying time (min)	Heating rate (°C/°F)	Vacuum1 (°C/°F)	Vacuum2 (°C/°F)	Firing Temp. (°C/°F)	Holding time (min)	Cooling time (min)
1 st sintering	450/842	6	50/122	450/842	830/1526	830/1526	1	2
2 st sintering	450/842	6	50/122	450/842	820/1508	820/1508	1	2
Bridge	450/842	6	50/122	450/842	830/1526	830/1526	1	8

Glass ceramics								
	Stand-by Temp. (°C/°F)	Drying time (min)	Heating rate (°C/°F)	Vacuum1 (°C/°F)	Vacuum2 (°C/°F)	Firing Temp. (°C/°F)	Holding time (min)	Cooling time (min)
1 st sintering	450/842	6	50/122	450/842	760/1400	760/1400	1	2
2 st sintering	450/842	6	50/122	450/842	760/1400	760/1400	1	2



Operation cautions

- Before use, please use glass or plastic spatula to fully mix the paste to ensure the color uniformity of the restoration and obtain a good operation experience at the same time. Or you can alter the viscosity by adding the blending liquid as your preference.
- Using too much blending liquid may affect the stability of the paste. Please do not add the blending liquid directly into the paste bottle for mixing. It is recommended to put the paste and blending liquid in a palette and mix in small amounts and multiple times.
- In order to avoid the bubbles, water can not be used for blending.
- Please take the recommended firing curve as reference. Applying the paste with low temperature ceramic powder is not recommended. Please take the recommended firing curve as reference. Applying the paste with low temperature ceramic powder is not recommended.
- Be careful with the heating rate(40°C/min,104°F/min) and cooling time(8mins) of full contour bridge.



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