



Aidite

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Simulation or mimic, the final purpose is initial natural

Simple Aesthetics for Monolithic Restoration

To replicate natural dentition with the highest esthetics Aidite introduces Biomic Stain/Glaze specially developed for CAD/CAM all-ceramic restorations. The product is designed to allow dental technicians to use a fast, simple method to finish their work, achieving a restoration that replicates natural teeth. This new set of Biomic Stain/Glaze is designed to match the aesthetics of natural teeth with 2D paste colors. 3D paste effects are added as well. The color mixture of 2D and 3D paste can maximize the aesthetic effects.

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Biomic developed by Aidite completely allow me to finish the zirconia restorations without porcelain buildup, but through the simplest and fastest way. Achieving a restoration just like the natural teeth.

Whether Biomic is applied to zirconia or glass ceramic restorations, it can achieve an incredibly beautiful and natural effect

By Chen-Ming Kang



Why choose Biomic Stain/Glaze?

All in one

A Stain/Glaze suitable for all types of ceramic restorations, like zirconia, glass ceramic, porcelain, etc., Universal coloration system for all restorations.

Simple to use

The coloration pastes of the Biomic Stain/Glaze are simple and user friendly. With the recommended schematics from Aidite, technicians can utilize the simple system to achieve ideal aesthetic results.

Bionic aesthetics

The composition of 2D paste color in Biomic Stain/Glaze completely mimics the colors of natural teeth, the 3D paste combination then creates the aesthetic effects. At the same time, 3D pastes can be used to adjust the tooth surface morphology, and slight contour distinctions.







Biomic Stain / Glaze set list

To meet the needs of different artists and technicians, the Biomic Stain / Glaze series is available in two sets, namely the basic set and the aesthetic set. The basic set contains the most used paste colors to meet your basic needs for staining of all-ceramic restorations. The aesthetic set contains the complete range of paste colors. Using the aesthetic set allows technicians to achieve more ideal aesthetic that enhances natural effects.







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shade D

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Biomio" Stain/Gaze Brown Aidite

Pink 💋

ade D, Blue 1, Blue 2, White, White-c ge 1, Orange 2, Mauve, Yellow, Pink-R ,	3Dpaste	3DT,3DV
uid 2	Accessory products	2D Brush, 3D Brush, 16 shade matcher

Color concept

High Saturation High Saturation Orange 1 Orange 2 Terracotta Hue Hue Shade C Shade A Shade B Shade D Warm area Warm area Yellow Orange 2 Orange 1 Cold area Cold area: Black Blue 1 Blue 2 Mauve

Surface color enhancements





Biomic Stain/Glaze

Crack line, calcifications, white spots, white band, proximal stain, gum illusion, halo effect.



Mix with the main colors to produce life like results.







Biomic Stain/Glaze

One-step standardized staining procedure



After cleaning the surface of zirconia restoration with steam.



Use Blue 1 at the incisal end to createa sense of transparency.



Side view after sintering without affecting the surface texture.

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Apply a layer of Glaze-F paste on the surface, including the side of the jaw.



The shade A is used on the side of the jaw, also the marginal ridge is colored. Use Blue 1 at the incisal end to create a sense of translucency



Side view of jaw after sintering.



The shade A is used at the 1/3 of the buccal neck of the restoration, and the brushing range includes the lower part of the adjacent surface.



Complete the sintering according to the recommended sintering curve, there storation after sintering presents a beautiful natural feeling.





After cleaning the surface of the

zirconia restoration with steam.

Side view of zirconia restoration.



Use orange 2 on the upper 1/3 of the incisal edge to build mamelon finger structure.



Complete the sintering according to the recommended sintering curve, therestoration after sintering presents a beautiful natural feeling.



Side view of jaw after sintering

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Biomic Stain/Glaze

One-step personalized staining procedure





Apply a layer of Glaze-F paste on the surface, including the side of the jaw.

Use blue 1 on both sides of the top 1/3 of the incisal edge to create transparency, use blue 2 in the middle area, and use black to enhance translucency in the middle area.



Use orange 1 at the incisal edge to create the halo effect, and use brown at the neck edge to create a sense of hierarchy.



Use shade A on the 1/3 of the buccal neck of the restoration, and use terracotta on the neck margin and the lower part of the adjacent surface.



Use shade A on the side of the jaw, use white on the edge ridge, blue 1 on the incisal edge to create a sense of translucency, and then use the brown to create personalized features.



The restoration will not lose the texture characteristics of the surface due to the personalized staining of the surface with Biomic Stain/Glaze.







Biomic Stain/Glaze

Multi-step standardization of staining operations



After cleaning the surface of the zirconia restoration with steam



Apply a thin layer of coloring liquid 1 to the surface of the restoration



Use shade A on the 1/3 of the buccal neck of the restoration



Use terracotta on the neck margin and the lower part of the adjacent surface





Use orange 2 on the upper 1/3 of the incisal edge to build mamelon finger structure, use orange 1 to do the halo effect



Use shade A on the side of the jaw, and use terracotta to create a sense of hierarchy



Complete the first sintering according to the recommended sintering curve



Apply a thin layer of glaze liquid to the surface of the restoration



Apply a layer of Glaze-F or 3DT on the surface



The edge ridge and white spot feature effects can be enhanced with white







Biomic Stain/Glaze



Use brown at the neck edge to create a



Use blue 1 to create a sense of translucency at the incisal edge of the side of the jaw, and then use brown as the personalized feature



Complete the second sintering according to the recommended sintering curve



Complete the third sintering according to the recommended sintering curve. After using multi-step operation, the anterior crown after sintering shows an aesthetic effect comparable to porcelain



The multi-step staining process jaw side view

30000.200° *The material in the figure is 3D Pro zir





Certification

Medical Device Registration of the People's Republic of China, CE Certification 0197, FDA Certification

Indications

Staining, characterization, glazing of ceramic materials, Zirconia full-crown restorations, Glass ceramic full-crown restorations



GLASS CERAMIC FULL-CROWN RESTORATIONS

Physical data

	Test standard	Measurements	Values	
Coefficient of thermal expansion	ISO 6872:2015	CTE(25°/-Tg) [10 ⁻⁶ K ⁻¹]	2Dpaste=8.6 3Dpaste=9.1 Glaze-F=8.9	
Flexural strength (3 point flex test)	ISO 6872:2015	>50 Mpa [10 ⁻⁶ K ⁻¹]	>115 MPa	
Chemical solubility	ISO 6872:2015	<100µg/cm ²	≈30µg/cm ²	Biomic State
Transformation temperature	ISO 6872:2015		≈480°C-490°C	10 and

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ZIRCONIA FULL-CROWN RESTORATIONS

Biomic Stain/Glaze 2D&3D

ZD Color Paste

- The viscosity of the paste is moderate, and it can be evenly applied to the surface of any ceramic restoration. It will not collapse and flow, making the paste system easy to use.
- All pastes have ideal high light transmittance and fluorescence. The restoration will exhibit life-like effects with great light transmission, with natural fluorescence.
- Paste mixed with ceramic powder, creates a higher strength after sintering. This can effectively improve the anti-wear performance of the product in clinical use.

■ 3D paste

- 3DT paste can be used in combination with 2D color paste. The micro crystal particles infused in the medium creates best esthetics.
- 3D paste has a high degree of plasticity, you can use the micro-stacking method to adjust the tooth shape or adjust the contact points.
- 3D Value paste has the function of improving the brightness, it can be used directly on the surface of the restoration or mixed with a small amount of 2D color paste.







Biomic Stain / Glaze fluorescence effect

Dental zirconia does not have the fluorescence properties of natural teeth. Using Biomic coloration, fluorescence effects are added to the restorations that are like natural teeth. Biomic Stain / Glaze full set of paste products all contain fluorescent effect. Black light pictures show vivid fluorescence in the restoration below.



Effect of zirconia crown before applying Glaze-F under fluorescent lamp





Effect of zirconia crown after applying Glaze-F under fluorescent lamp



Biomic Stain/Glaze Coloring Liquid



📨 Coloring Liquid 1

- Coloring Liquid 1 is used for all 2D staining pastes and serves as a diluent. If a thin layer of paste needs to be applied, it can be used to reduce the viscosity of the paste.
- When the Glaze-F paste is too thick, you can use the coloring liquid 1 to reduce the viscosity of the paste. The Glaze-F paste with the coloring Liquid 1 added can be thinner and have a glazing effect.
- Before using the coloring liquid 1, stir the paste thoroughly with a glass rod to achieve good consistency before adding and adjusting. Too much use of the coloring liquid 1 may affect the operation.
- Do not add the coloring liquid 1 directly into the paste bottle and stir it. It is recommended to mix it with the paste on the palette. Be sure that the paste has been mixed thoroughly to the correct consistency.

Coloring Liquid 2

- Coloring liquid 2 is used for all 3D pastes. If the 3D paste has dried, it can be adjusted with coloring liquid 2.
- Coloring liquid 2 is used to adjust the viscosity of the 3D paste without affecting the characteristics of the 3D paste itself.
- If 3D paste is mixed with other liquids, it will have adverse effects on the entire procedure.
- Coloring liquid 2 contains liquid glass components. After use, cover the bottle to avoid liquid solidification or precipitation.

Processing Tips

- liquid 1.
- consistency as needed for easy operation.
- All the surfaces of all-ceramic crowns can be adjusted with 3D paste.
- occlusal contact area, abutment surface and incisal length.



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- Low-temperature powder can be mixed into Glaze-F to form a special paste. If it is too thick, it can be mixed with coloring

- If you want to make a special color 3D paste, just mix the powder with 3DT, and add the coloring liquid 2 to adjust the

- The 3D pastes contain porcelain powder, which will increase the thickness after sintering, and can be used to increase the

When micro-cutting the full crown, 3D paste can be directly used after dyeing to achieve the same effect as porcelain. To reduce the surface brightness of the restoration after sintering, the sintering temperature can be reduced to 715 °C. To improve the surface brightness of the restoration after sintering, the sintering temperature can be increased to 750 °C. You can increase or decrease the surface brightness of the restoration by manual polishing after glazing.



Sintering Chart

	Temperature at start (°C)	Drying time (min)	Heat rate (°C/min)	Start (℃)	End (°C)	Sintering temperature (°C)	Holding time (min)	Slow cooling (min)
First sintering (2D paste/3D paste/Glaze-F)	450	8	55	450	730	730	1	-
Second sintering (2D paste/3D paste/Glaze-F)	450	8	55	450	720	720	1	-
Fast sintering (Only using Glaze-F)	450	2	99	450	720	720	0.5	-
Zirconia Long Bridge Sintering (4-7 units)	450	8	40	450	730	730	1	5
Zirconia Long Bridge Sintering (8 units or more)	450	10	30	450	730	730	1	10

Please note when sintering the long bridge restoration:

- 1. Reduce the heating rate appropriately to improve the sintering quality.
- 2. Extending the holding time can compensate for poor heat conduction of zirconia.
- 3. Extend the cooling time to avoid stress cracks caused by rapid cooling of zirconia.





Biomic Stain/Glaze Product List

Product name	Product specifications	Product co
2D paste		
Shade A	4g	ACStain-A
Shade B	4g	ACStain-B
Shade C	4g	ACStain-C
Shade D	4g	ACStain-D
Blue 1	4g	ACStain1-H
Blue 2	4g	ACStain2-H
White	4g	ACStain-W
White-c	4g	ACStainC-V
Brown	4g	ACStain-Bi
Terracotta	4g	ACStain-Te
Black	4g	ACStain-Bl
Orange 1	4g	ACStain1-C
Orange 2	4g	ACStain2-0
Mauve	4g	ACStain-M
Yellow	4g	ACStain-Ye
Pink-R	4g	ACStainR-I

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Blue
Blue
hite
White
rown
erracotta
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Drange
Drange
auve

- Mauve
- ellow
- -Pink

Product name	Product specifications	Product code
3D paste		
Glaze-3DV	4g	AC3DV-Glaze
Glaze-3DT	4g	AC3DT-Glaze
Glaze		
Glaze-F	4g	ACF-Glaze
Coloring Liquid		
Coloring Liquid 1	25ml	ACMF1-25
Coloring Liquid 2	25ml	ACMF2-25
Brush		
2D Brush	1branch	Biomicbrush-2D
3D Brush	1branch	Biomicbrush-3D
Shade matcher		
6 Shade matcher	1slice	ACO104
16 Shade matcher	1slice	ACO105