



Esthetic Colorant

FOR "KATANA™ Zirconia"

TECHNICAL GUIDE



DIRECTION FOR USE

We recommend using Esthetic Colorant with pre-coloured zirconia such as "KATANA™ Zirconia" series. Please note this product is designed to be sintered at the sintering temperature of "KATANA™ Zirconia", and depending on the dental zirconia that you use, colours can differ from the true Esthetic Colorant shades.



PREPARATION

To achieve consistent colouring results, any dust or grease must be removed from the surface of the pre-sintered zirconia before applying the liquid. When cleaning with an ultrasonic cleaner, after cleaning, dry in a drying oven at 80°C (176°F) or higher for 1 hour or longer. After cleaning, avoid contact between the restoration and metal materials, such as tweezers. Wear gloves to prevent oil from getting on the restoration.



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COLOURING

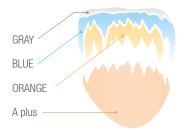
Make sure the lid is closed and shake the bottle well prior to use. Apply the required amount of liquid to the zirconia surface, using a ceramic pallet or a plastic tray with a metal-free brush. If necessary, you can apply the liquid multiple times to the same area, in order to increase the chroma after sintering. A maximum of 3 applications is recommended because too many applications may result in difficult colour control after sintering. For the detailed colouring steps, please see following recommended colouring example*.

ANTERIOR TEETH

For an anterior tooth, apply BLUE and GRAY on the incisal edges. It is important to apply it so that it replicates the shadows of the mamelon structure.

Apply ORANGE on to reproduce mamelon colour.

Apply A plus to the cervical area to increase the chroma.



POSTERIOR TEETH

For the occlusal surface of a molar, apply BLUE and GRAY on the cusps to reproduce the enamel colour of the occlusal surface and cusp.

Apply A plus to the cervical area to increase the chroma.

Apply BROWN on the occlusal surface of the molar, especially in deep pits and fissures, to stain.







Dry at 80 - 200°C (176 - 392°F) for at least 30 minutes, while avoiding contact with metal by using a ceramic tray.





SINTERING







Sinter the restoration according to the instruction manual of the relevant zirconia while avoiding contact with uncoloured zirconia and metals.

*For the "KATANATM Zirconia" Multi-Layered series, a 54-minute, a 90-minute and a 7-hour sintering schedule are available.





APPLICATION OF GLAZE, BAKING AND FINISHING

Apply "CERABIEN™ ZR" FC Paste Stain Glaze or Clear Glaze over the restoration until the applied layer is 30 µm or thicker.

Bake the restoration following the baking schedule of "CERABIEN" ZR" FC Paste Stain. Apply an additional layer of Glaze or Clear Glaze, followed by re-baking, if there is insufficient gloss after the initial bake.

Use silicone points for final adjustment after baking.

Finish the restoration by polishing.





COMPLETED

Restorations coloured with Esthetic Colorant then finished with "CERABIEN™ ZR" FC Paste Stain





COLOUR COMPOSITION LIST

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Shade	Application
A plus	Used to increase the chroma of A Dentin shades.
B plus	Used to increase the chroma of B Dentin shades.
C plus	Used to increase the chroma of C Dentin shades.
D plus	Used to increase the chroma of D Dentin shades.
BROWN	Used to give a brown tint to the cervical area and on the main groove to reproduce the dentin colour.
ORANGE	Used to give an orange tint to the cervical area, and to reproduce mamelon colour.
GRAY	Used to reproduce the grayish enamel colour of the occlusal surface and cusp.
BLUE	Used to reproduce the blueish enamel colour of the occlusal surface and cusp.
VIOLET	Used to reproduce the reddish-blue enamel colour of the occlusal surface and cusp.
PINK	Used to give a pale pink. (the base of the gingiva)*
WHITE	Used to give high value white opacity.
OPAQUE	Used to give pale yellow opacity.

^{*}After sintering, fluorescence derived from the element is visible. Completely cover the surface of the applied area with porcelain which does not contain fluorescent agents, such as "CERABIEN" ZR" Tissue.

NOTE: Usage of Esthetic Colorant WHITE and OPAQUE

WHITE and OPAQUE can be used for masking the abutment colour from the inside of a crown. Brush inside of crown with either WHITE or OPAQUE to increase opacity and control value.



Apply Esthetic Colorant OPAQUE



After application



After sintering the restoration

Comparison of restorations with/without Esthetic Colorant OPAQUE



Metal abutment



"KATANA™ Zirconia" YML A2 + Metal abutment



"KATANA™ Zirconia" YML A2 + Esthetic Colorant OPAQUE

RECOMMENDED ITEMS

Esthetic Colorant and the "KATANA™ Zirconia" Multi-Layered Series are made for each other. Due to the precise adjustment of the shading liquids to the pre-shaded multichromatic blanks, their combined use is highly recommended for anyone striving for the best possible outcomes.

"KATANA™ Zirconia"

PRODUCT LINE-UP (multi-layered zirconia for monolithic restorations)



UTML

Ultra Translucent Multi-LayeredTranslucency* 51 %
Strength* 557 MPa



STML

Super Translucent Multi-Layered Translucency* 49 % Strength* 748 MPa



HTML PLUS

High Translucent Multi-Layered Translucency* 45 % Strength* 1150 MPa



YML

Yttria
Multi-Layered
Translucency* 45-49 %**
Strength* 750-1100 MPa**



"CERABIEN™ ZR" FC Paste Stain

FOR YOUR "STAIN & GLAZE" SOLUTION.

"CERABIEN™ ZR" FC Paste Stain is a paste type external stain, suitable for the reproduction of a wide variety of shades.



Liquid Brush Pen

FOR YOUR EASIER APPLICATION OF ESTHETIC COLORANT.

A dedicated Liquid Brush Pen for Esthetic Colorant is now available. With this pen, it's even easier to express a variety of characteristics. This pen enables easier control of the liquid and reduces the possibility of unexpected overapplication caused by liquid dripping from its tip etc.

^{*} Measurement condition: Evaluated by base material (white colour)

¹ According to ISO 6872: 2015, Sample size: 3 x 4 x 40 mm, 2 All light transmittance, illuminant: D65, Thickness of sample: 1.0 mm (Data source: Kuraray Noritake Dental Inc.)

^{**}Translucency and strength varies depending on layers.

CAUTION FOR USE

CONTRAINDICATIONS

If the patient is hypersensitive to zirconia or any other components, this product must not be used.

CAUTION AND WARNING

- **1.** If the patient or the dental professional demonstrates a hypersensitivity reaction, such as a rash, dermatitis etc., discontinue use of the product and seek medical attention immediately.
- 2. Do not touch the skin or eyes when using.
- **3.** If the product touches human body tissues, take the following actions:
 - If the product gets in the eye

Immediately wash the eye with plenty of water and consult a physician.

If the product comes in contact with the skin

Immediately rinse with plenty of soapy water.

4. Do not mix this liquid with other products.

PRECAUTIONS IN USE

- Esthetic Colorant is only available with the brush painting technique. Apply using a commercially available metal-free brush or brush pen. The dipping technique is not recommended.
- 2. Do not mix Esthetic Colorant shades, but it is possible to apply each shade in layers to presintered zirconia.
- **3.** After using brushes, rinse the brush with distilled water. Then, try writing something on a paper with high water absorbency to confirm whether there is any remaining liquid on it.
- **4.** To avoid reduced performance in the Liquid Brush Pen, refilling with additional liquid is not recommended. Once the pen's reservoir becomes empty, be sure to use a new Liquid Brush Pen. If the tip of the Liquid Brush Pen is contaminated with other colours or liquids, rinse the tip with distilled water. Then, try writing something on a paper with high water absorbency to check if the liquid in the reservoir comes to the tip of the pen, that there's no rubbing or smudging, and if the colours appear correctly on the paper.

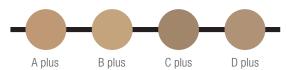
STORAGE

- 1. Store in a cool and dry place. Keep away from direct sunlight.
- **2.** The product should be stored at 10 30°C (50 86°F).
- 3. After opening this product, be sure to keep the bottle lid tightly closed.

COLOUR COMBINATION TABLE

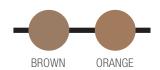
DENTIN

12 ml



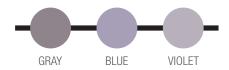
CERVICAL

12 ml



INCISAL

12 ml



TISSUE

12 ml



MODIFIER

12 ml





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- Before using this product, be sure to read the Instructions for Use supplied with the product.
- The specifications and appearance of the product are subject to change without notice.
- Printed color can be slightly different from actual color.

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