Providing Strong Bonds to Zirconia and Tooth Structure

*Photo is for illustration purpose only. KATANA™ Bonding kit does not contain KATANA™ Zirconia Block.
Chemical Bond to KATANA™ Zirconia Block

KATANA™ Zirconia Block STML is an innovative multi-layered zirconia block. It is made from proprietary zirconia powder manufactured by Kuraray Noritake Dental Inc. The KATANA™ Bonding Kit contains the original MDP adhesive monomer*, which can provide a chemical bond to zirconia.

*R Due to print limitations, Sintered block color may appear slightly different from the actual product.

Fast & Easy Clean-Up

PANAVIA™ SA Cement Plus Automix offers a unique catalyst-controlled setting mechanism, which provides an easier clean-up technique with shorter chair-time, and reduces the possibility of damaging the gingiva.

Optional Use as "Everyday" PANAVIA™

PANAVIA™ SA Cement Plus Automix is a dual-cure resin cement featuring fluoride-release and Kuraray’s legendary technology (MDP monomer). When used in combination with CLEARFIL™ Universal Bond Quick, a high bond strength to both the dentin and enamel can be achieved. PANAVIA™ SA Cement Plus Automix can be stored at room temperature for convenience.

Over 20 Years of research indicates that the original MDP monomer, in the PANAVIA™ resin cement systems, provide the highest bonds to zirconia.1,2,3 The original MDP adhesive monomer is also the key ingredient in CLEARFIL™ Universal Bond Quick. This monomer is unique due to its high and durable chemical bonds to dentin, enamel and metal-oxide (zirconia).
Enhancing Bond to Enamel and Dentin

PANAVIA™ SA Cement Plus Automix offers high bond strength to the zirconia substrate. When used in conjunction with CLEARFIL™ Universal Bond Quick, there is a 35% increase in bond strength to the tooth structure. By using these two products together (use of CLEARFIL™ Universal Bond Quick is optional), it is ideal for your tougher bond cases (ex. short clinical preparations; adhesion bridges). The MDP monomer (both products), and the AMIDE technology (CLEARFIL™ Universal Bond Quick), provides a stronger result than obtained from traditional GI or RMGI cement.

Versatile for Direct/Indirect Restoration - CLEARFIL™ Universal Bond Quick

CLEARFIL™ Universal Bond Quick has a wide range of applications, giving you the opportunity to use it with Post and Core Material (CLEARFIL™ DC CORE PLUS); for Direct Restorations (CLEARFIL MAJESTY™ ES-2/ES Flow); and for Indirect Application (with PANAVIA™ SA Cement Plus Automix). Use CLEARFIL™ Universal Bond Quick with any etching mode (self, selective or total-etch).

Systematic Review of Adhesion Studies on Zirconia

“…regardless of the conditioning methods, MDP-based cements presented the most favorable bond values compared to those of other resin cements.”

References:
**Ordering Information**

#3394KA KATANA™ Bonding Kit

1 PANAVIA™ SA Cement Plus Automix (Universal (A2) (8.0g/4.6ml)*
1 CLEARFIL™ Universal Bond Quick (5ml)**
Mixing Tips (20 pcs)
Applicator Brush (50 pcs)
1 Mixing Dish

*PANAVIA™ SA Cement Plus Automix Translucent and White shades available separately
**CLEARFIL™ Universal Bond Quick Unit Dose available separately

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**Procedure for Zirconia Bonded Restorations**

### Self-Adhesive Technique

1. Clean and dry the tooth surface, and then trial fit the zirconia restoration.
2. Blast with alumina powder (30-50µm), then ultrasonic clean and dry.
3. Apply over the prosthetic restoration or the entire tooth surface within the cavity. Light-cure for 2 to 5 seconds (1-2 seconds when using CLEARFIL™ Universal Bond Quick) or chemical-cure for 2 to 4 minutes, then remove the excess cement. Maintain isolation for 5 minutes.

**CLEARFIL™ Universal Bond Quick** can also be used in combination with PANAVIA™ SA Cement Plus to enhance bond strength to tooth structure. In that case, the following two steps will be additionally needed after sandblasting.

### Bonding Technique

2-1. Tooth Pretreatment. Choose either etching procedure:
   a) Selective-etching
   b) Total-etching
   c) Self-etching

2-2. Apply BOND with a rubbing motion and dry by blowing mild air until BOND does not move*

*Use a vacuum aspirator to prevent BOND from scattering

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**YOUR CONTACT**

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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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