

UNIVERSAL RESIN-BASED CEMENT SYSTEM

**KATANA™ Bonding Kit**

**Providing Strong Bonds to  
Zirconia and Tooth Structure**



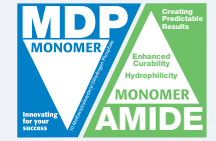
# PANAVIA™ SA Cement Plus Automix



# CLEARFIL™ Universal Bond Quick



95% Rated It Excellent or Good & Worthy of Trial by Colleagues!  
1. Clinician's Report, September 2017, Vol. 10 Issue 9



## 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.



The logo "MULTI LAYERED" expresses original production technology of KATANA™ multi-layered materials  
\* Due to print limitations, Sintered block color may appear slightly different from the actual product.

\*See the bottom section on MDP Monomer originally from Kuraray Noritake Dental for further details.

## 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.

Fast and Easy Cleanup with simple removal of excess cement



Photo courtesy of Marvin A. Fier, DDS, FASDA, ABAD

## Optional Use as "Everyday" PANAVIA™

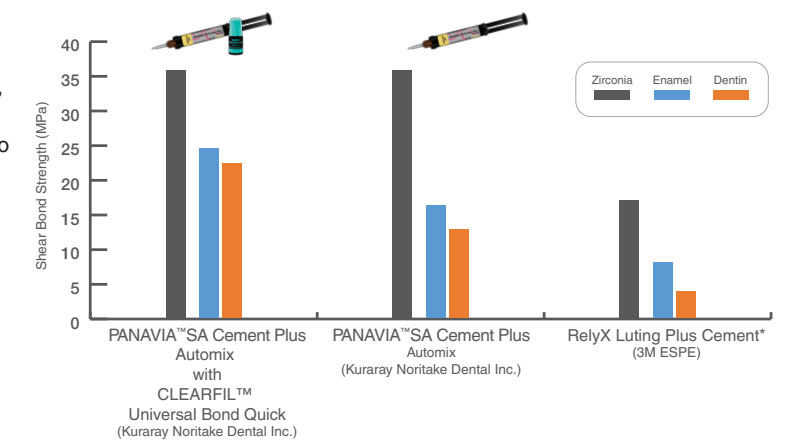
PANAVIA™ SA Cement Plus Automix is a dual-cure resin cement featuring fluoride-release and Kuraray's legendary technology (MDP monomer). When used in combination with CLEARFIL™ Universal Bond Quick, a high bond strength to both the dentin and enamel can be achieved. PANAVIA™ SA Cement Plus Automix can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

One-Step, Self-Adhesive when cementing to 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.



Source: Kuraray Noritake Dental, Inc. \*Not a trademark of KURARAY Co., Ltd.

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

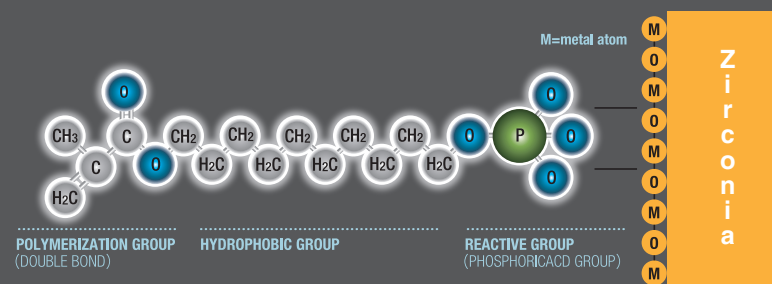
CLEARFIL™ Universal Bond Quick has a wide range of applications, giving you the opportunity to use it with Post and Core Material (CLEARFIL™ DC CORE PLUS); for Direct Restorations (CLEARFIL MAJESTY™ ES-2/ES Flow); and for Indirect Application (with PANAVIA™ SA Cement Plus Automix). Use CLEARFIL™ Universal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



# MDP MONOMER Originally Formulated & Patented by Kuraray Noritake Dental



Over 20 Years of research indicates that the original MDP monomer, in the PANAVIA™ resin cement systems, provide the highest bonds to zirconia.<sup>1,2,3</sup> 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).



## Systematic Review of Adhesion Studies on Zirconia

"...regardless of the conditioning methods, MDP-monomer based cements presented the most favorable bond values compared to those of other resin cements."<sup>1</sup>

1. M. Ozcan & M. Bernasconi, Journal of Adhesion Dentistry Vol. 17 No. 1 2015

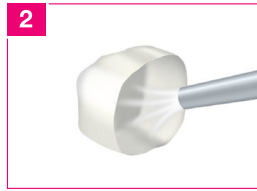
2. M. Kern, M. Blatz The Journal of Prosthetic Dentistry Vol. 89 #3, 3. M. Kern et al, Journal of Dentistry 65 (2017) 51-55

## 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

### 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

## 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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