

# Zirconia cementation with

SELF-ADHESIVE RESIN CEMENT

## PANAVIA™ SA Cement Plus Automix



Retention of zirconia-based ceramic restorations depends on mechanical roughening of the surface through sandblasting and chemical bonding with adhesive monomer in resin cements.



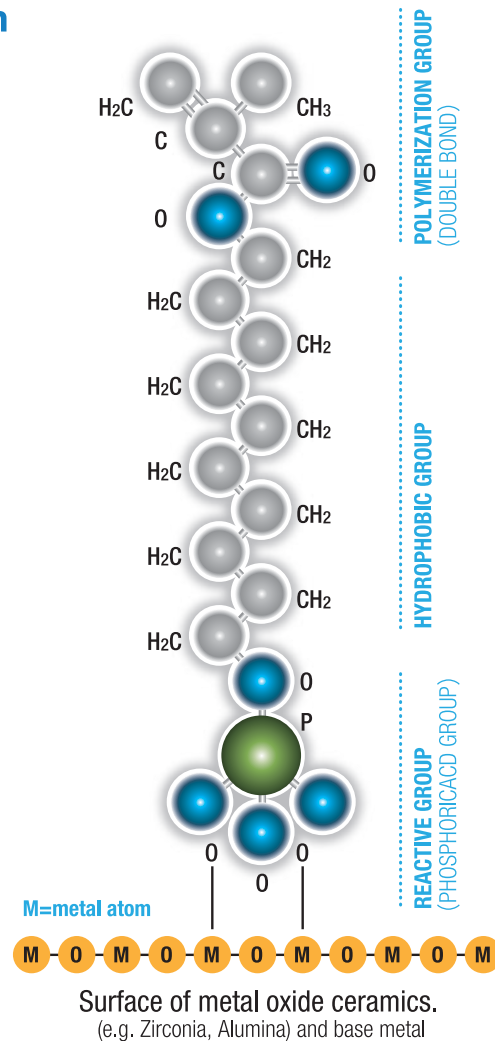
### MDP Monomer Originally from Kuraray Noritake Dental

An adhesive phosphate monomer such as MDP shows an excellent chemical bonding to zirconia-based ceramics. The phosphate ester group of the MDP monomer results in chemical bonding to metal oxides, zirconia-based ceramics and other ceramics.

The self-adhesive resin cement PANAVIA™ SA Cement Plus Automix includes the original MDP adhesive monomer, which has exceptional bond strength based on research gathered over 15 years. It is designed to have excellent bond strength and durability to zirconia.

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

Systematic Review of Adhesion Studies on Zirconia  
M. Özcan, J Dent Res Vol #90 A: 374, 2011 [www.iadr.org](http://www.iadr.org)



✓ **Chemical Bonding to Zirconia**

✓ **Fast & Easy Clean-Up**

✓ **New Chemistry Provides High Performance**

**Stronger Bond, Stable Room Temperature Storage,  
and Fast Light-curing Time**

✓ **Fluoride-releasing**

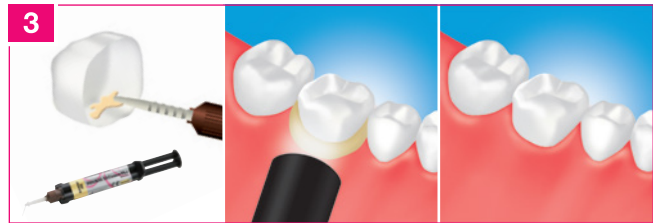
**Basic Procedure for Zirconia Restorations with PANAVIA™ SA Cement Plus Automix**



Clean and dry the tooth surface, and then trial fit the zirconia restoration.

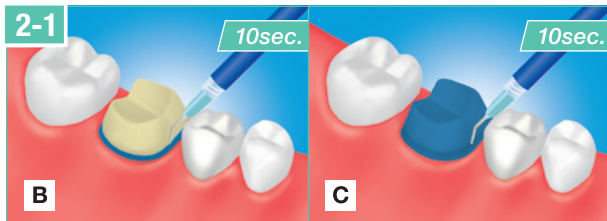


Blast with alumina powder (30-50µm, 0.1-0.4MPa/14-58 PSI/1-4kgf/cm²), then ultrasonic clean and dry.

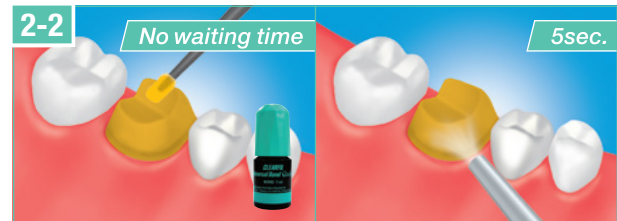


Apply over the prosthetic restoration or the entire tooth surface within the cavity. Light-cure for 2 to 5 seconds or chemical-cure for 2 to 4 minutes, then remove the excess cement. Maintain isolation for 5 minutes.

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



Tooth Pretreatment. Choose either etching procedure  
a) Self-etching (move to section 2-2)  
b) Selective-etching  
c) Total-etching



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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- 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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