



Cementation of crowns

for PANAVIA SA Cement Plus Automix and CLEARFIL Universal Bond Quick. Refer to IFU of each product for other indications.

Clean and dry the tooth surface, and then trial fit the prosthetic restoration

1 Surface preparation of prosthetic restorations

Silica-based Glass Ceramic (e.g. Lithium Disilicate)

Apply a hydrofluoric acid, then rinse and dry

Metal-oxide (e.g. Zirconia), Metal or Composite resin

Blast with alumina powder (30~50µm, 0.2-0.4MPa/ 29-58 PSI/ 2-4 kgf/cm²), then ultrasonic clean and dry

2 Apply BOND*¹, then dry by blowing mild air until BOND does not move*²

5sec. + Dry

*¹ Application of BOND to Metal-oxide or Metal is not necessary.
 *² Use a vacuum aspirator to prevent BOND from scattering.

3 Tooth Pretreatment

Choose either etching procedure

a. Self-etching (Move to section 4)

b. Selective-etching
 Apply a phosphoric acid to the uncut and / or cut enamel, then rinse and dry

10sec.

c. Total -etching
 Apply a phosphoric acid to the entire cavity (enamel and dentin), then rinse and dry

10sec.

4 Apply BOND with a rubbing motion

No waiting time

5 Dry by blowing mild air until BOND does not move*²

5sec. +

6 Apply over the prosthetic restoration or the entire tooth surface within the cavity*³

*³ Refer to table 1 for working time.

7 Light-cure for 1 to 2 seconds or chemical-cure for 2 to 4 minutes, then remove the excess cement

8 Maintain isolation for 5 minutes*⁴

*⁴ For a translucent restoration, light-cure. Refer to table 2.

*³ Table 1 : Working time

Working time after initial dispensing (23°C/ 73°F)	1 min.
Working time after insertion of the paste into the cavity (37°C/ 99°F)	40 sec.

*⁴ Table 2 : Curing time for type of light source

Type	Light source	Light Intensity	Curing time
High-intensity BLUE LED	BLUE LED	More than 1500 mW/cm ²	Twice for 3 to 5 sec.
BLUE LED		800-1400 mW/cm ²	
Halogen	Halogen lamp	More than 400 mW/cm ²	10 sec.

* For the light intensity, refer to the IFU of the dental curing unit.