



## Cementation of Laminate Veneers

### Silica-Based Ceramics

Clean and dry the tooth surface in the usual manner.

**1** As necessary, trial fit the Laminate Veneer using PANAVIA V5 Try-in Paste, wash and remove.

**2** ①Apply hydrofluoric acid (HF), then rinse and dry.  
②Apply CLEARFIL CERAMIC PRIMER PLUS and dry.

**3** Apply phosphoric acid (K-ETCHANT Syringe) to the enamel, leave for 10sec., rinse and dry.

**4** Choose either A or B

**A. PANAVIA V5 Tooth Primer**  
Apply PANAVIA V5 Tooth Primer, leave for 20 sec. and thoroughly dry with mild air.

**B. CLEARFIL Universal Bond Quick**  
Apply CLEARFIL Universal Bond Quick with rubbing motion. No waiting time. Then dry thoroughly until bond does not move (more than 5 sec.).

**5** Dispense cement and place the Laminate Veneer.

**No need to light-cure**

**6** Remove the excess cement using either method.

**A. Tack-cure Clean-Up**  
①Tack-cure for only 1 sec.  
②Remove with a dental explorer.

**B. Wet Clean-up**  
Remove with a dental instrument.

**7** Light-cure each area and margins. Refer to table. Then finish the restoration.

Table: Light-curing time of each Restoration type

Restoration type and shade		Maximum restoration thickness	Type of curing light (Light intensity)		
			High- intensity BLUE LED ( $\geq 1500 \text{ mW/cm}^2$ )	BLUE LED (1000~1400 $\text{mW/cm}^2$ )	Halogen lamp ( $\geq 400 \text{ mW/cm}^2$ )
<b>Laminate veneer</b>			Curing time		
Silica-based ceramic (e.g. conventional porcelain, lithium disilicate)	BL shades, A1, A2, A3, A3.5, B1, B2	2.0 mm	Three times for 3 sec. or Twice for 5 sec.	10 sec.	20 sec.
	Other shades			20 sec.	
Hybrid ceramic, composite resin	All shades	1.2 mm		20 sec.	
KATANA Zirconia STML/UTML, KATANA Zirconia Block STML					

# Cementation of Inlays/Onlays

## Composite Resin

**Note: Confirm the restoration thickness (<2mm)**

Clean and dry the tooth surface in the usual manner.

**1** As necessary, trial fit the Inlay/Onlay using PANAVIA V5 Try-in Paste, wash and remove.



**2** Air abrade with alumina powder, then clean with ultrasonic cleaning.




**3** Apply CLEARFIL CERAMIC PRIMER PLUS and dry.



**4** Choose either A or B


**A. PANAVIA V5 Tooth Primer**  
Apply PANAVIA V5 Tooth Primer, leave for 20 sec. and thoroughly dry with mild air.




**B. CLEARFIL Universal Bond Quick**

①Tooth Pretreatment  
Choose either etching procedure.

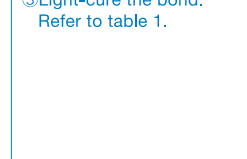
**a. Self-etching**  
(Move to section ②)



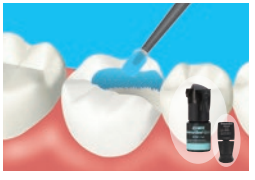
**b. Selective-etching**  
Apply K-ETCHANT Syringe to the uncut and/or cut enamel, then rinse and dry.




**c. Total-etching**  
Apply K-ETCHANT Syringe to the entire cavity (enamel and dentin), then rinse and dry.




②Apply CLEARFIL Universal Bond Quick with rubbing motion. No waiting time. Then dry thoroughly until bond does not move (more than 5 sec.).



③Light-cure the bond. Refer to table 1.



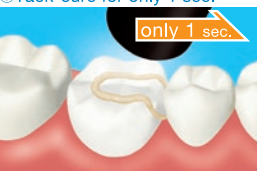
**5** Dispense cement and place the Inlay/Onlay.




**6** Remove the excess cement using either method.

**A. Tack-cure Clean-Up**

①Tack-cure for only 1 sec.

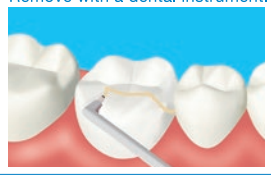


②Remove with a dental explorer.



**B. Wet Clean-up**

Remove with a dental instrument.



**7** Light-cure each area and margins. Refer to table 2. Then finish the restoration.




Table 1: Light-curing time of each light source (For CLEARFIL Universal Bond Quick)

Type of light source (Light intensity)	Curing time
High-intensity BLUE LED* (More than 1500 mW/cm <sup>2</sup> )	5 sec.
BLUE LED* (800-1400 mW/cm <sup>2</sup> )	10 sec.
Halogen lamp (More than 400 mW/cm <sup>2</sup> )	10 sec.

The effective wavelength range of each dental curing unit must be 400 - 515 nm.  
\* Peak of emission spectrum: 450 - 480 nm.

Table 2: Light-curing time of each Restoration type (For PANAVIA Veneer LC Paste)

Restoration type and shade	Maximum restoration thickness	Type of curing light (Light intensity)		
		High-intensity BLUE LED (≥ 1500 mW/cm <sup>2</sup> )	BLUE LED (1000~1400 mW/cm <sup>2</sup> )	Halogen lamp (≥ 400 mW/cm <sup>2</sup> )
<b>Inlays, onlays</b>				
Curing time				
Silica-based ceramic, hybrid ceramic, composite resin	2.0 mm	Three times for 3 sec. or Twice for 5 sec.	10 sec.	20 sec.
KATANA Zirconia STML/UTML, KATANA Zirconia Block STML	1.2 mm			