

DENTAL BONDING AGENT

**CLEARFIL™**

***Universal Bond Quick***



**Bottle**

**Flow Chart Sheet**

CE 0197



See Instructions  
for Use



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# INDICATIONS

- |   | CASE                                |
|---|-------------------------------------|
| [1] Direct restorations using light-cured composite resin       | Direct Restoration                  |
| [2] Cavity sealing as a pretreatment for indirect restorations* |                                     |
| [3] Treatment of exposed root surfaces*                         |                                     |
| [4] Treatment of hypersensitive teeth*                          |                                     |
| [5] Intraoral repairs of fractured restorations                 | Intraoral Repair                    |
| [6] Post cementation and core build-ups                         | Post Cementation /<br>Core Build-up |
| [7] Cementation of indirect restorations                        | Cementation                         |

\* Please refer to the Instructions for Use for [2], [3] and [4] of indications.

Direct Restoration



Intraoral Repair



Post Cementation / Core Build-up



Cementation



Table 1: Dental curing unit and curing time

Type	Light source	Light Intensity	Light-curing time
Halogen	Halogen lamp	More than 400 mW/cm <sup>2</sup>	10 seconds
LED	Blue LED*	800-1400 mW/cm <sup>2</sup>	10 seconds
		More than 1500 mW/cm <sup>2</sup>	5 seconds

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

# Direct Restoration Using Light-Cured Composite Resin

Follow the standard procedures for isolation, moisture control, cavity preparation and pulp protection

## 1 Tooth Pretreatment Choose either etching procedure

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

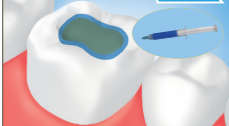
b. Selective-etching  
Apply K-ETCHANT Syringe to the uncut and/or cut enamel, then rinse and dry

10sec.



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

10sec.



## 2 Apply BOND with a rubbing motion

No waiting time



## 3 Dry by blowing mild air until BOND does not move\*1

5sec. +



\*1 Use a vacuum aspirator to prevent BOND from scattering.

## 4 Light-cure\*2



\*2 Refer to the Table 1 for light-curing time.

## 5 Place composite resin, light-cure and finish



# Intraoral Repair of Fractured Restorations

**1** Roughen, rinse and air dry



**2** Apply K-ETCHANT Syringe, then rinse and dry



**3** Apply BOND with a rubbing motion



**4** Dry by blowing mild air until BOND does not move\*<sup>1</sup>



\*<sup>1</sup> Use a vacuum aspirator to prevent BOND from scattering.

**5** Light-cure\*<sup>2</sup>



\*<sup>2</sup> Refer to the Table 1 for light-curing time.

**6** Place composite resin\*<sup>3</sup>, light-cure and finish



\*<sup>3</sup> Use an opaque resin (e.g. CLEARFIL ST OPAQUER) to mask metal color.

# Post Cementation / Core Build-ups with CLEARFIL DC CORE PLUS

Follow the standard procedures for moisture control and preparing root canal

## 1 Post Pretreatment

### For Glass Fiber Post

- [1] Apply K-ETCHANT  
Syringe, rinse and dry



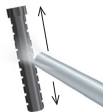
5sec.

- [2] Apply BOND, then dry  
by blowing mild air



### For Metal Post

- [1] Blast with alumina  
powder, then ultrasonic  
clean and dry



## 2 Tooth Pretreatment

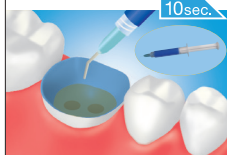
Choose either etching procedure

- a. Self-etching  
(Move to section 3)

- b. Selective-etching\*1



- c. Total-etching\*1

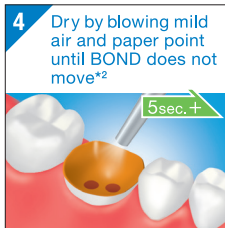


\*1 Refer to [Direct Restoration](#)



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page

# Post Cementation / Core Build-ups with CLEARFIL DC CORE PLUS



\*2 Use a vacuum aspirator to prevent BOND from scattering.

\*3 Refer to the Table 1 for light-curing time.



# Post Cementation / Core Build-ups

with Other Core Material (except for CLEARFIL DC CORE PLUS)

Follow the standard procedures for moisture control and preparing root canal

## 1 Post Pretreatment

### For Glass Fiber Post

- [1] Apply K-ETCHANT Syringe, rinse and dry



- [2] Apply the mixture of BOND and CLEARFIL DC Activator\*1, then dry by blowing mild air

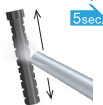


- [3] Light-cure\*2



### For Metal Post

- [1] Blast with alumina powder, then ultrasonic clean and dry



- [2] Apply the mixture\*1, then dry by blowing mild air



- [3] Light-cure\*2



Note: Working time will be dramatically shortened when not light-curing

\*1 Dispense one drop each of BOND and CLEARFIL DC Activator and mix them.

\*2 Refer to the Table 1 for light-curing time.

## 2 Tooth Pretreatment

Choose either etching procedure

- a. Self-etching (Move to section 3)

- b. Selective-etching\*3



- c. Total-etching\*3

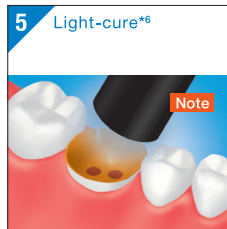


\*3 Refer to **Direct Restoration** 1



# Post Cementation / Core Build-ups

with Other Core Material (except for CLEARFIL DC CORE PLUS)



Note: Working time will be dramatically shortened when not light-curing

\*<sup>4</sup> Dispense one drop each of BOND and CLEARFIL DC Activator and mix them.

\*<sup>5</sup> Use a vacuum aspirator to prevent the mixture from scattering.

\*<sup>6</sup> Refer to the Table 1 for light-curing time.



# Cementation of Indirect Restorations with PANAVIA SA Cement Plus

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



Hydrofluoric acid

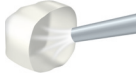
Metal-oxide (e.g. Zirconia), Metal or Composite resin



or



Blast with alumina powder (30~50 $\mu$ m, 0.2-0.4MPa/ 29-58 PSI/ 2-4 kgf/cm<sup>2</sup>), then ultrasonic clean and dry



## 2

Apply BOND\*<sup>1</sup>, then dry by blowing mild air until BOND does not move\*<sup>2</sup>

5sec.+  
Dry



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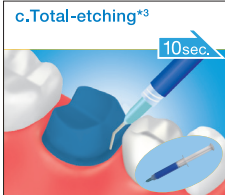
\*<sup>1</sup> Application of BOND to Metal-oxide or Metal is not necessary.

\*<sup>2</sup> Use a vacuum aspirator to prevent BOND from scattering.

# Cementation of Indirect Restorations with PANAVIA SA Cement Plus

## 3 Tooth Pretreatment Choose either etching procedure

a. Self-etching  
(Move to section 4)



\*<sup>3</sup> Refer to [Direct Restoration](#)

## 4 Apply BOND with a rubbing motion

No waiting time



## 5 Dry by blowing mild air until BOND does not move\*<sup>4</sup>

5sec.+



\*<sup>4</sup> Use a vacuum aspirator to prevent BOND from scattering.


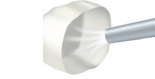
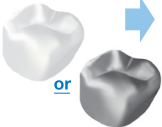
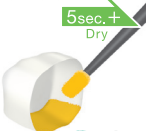

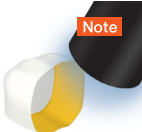
## 6 Cementation using PANAVIA SA Cement Plus according to the manufacturer's instructions



# Cementation of Indirect Restorations

with Resin Cement (except for PANAVIA SA Cement Plus)

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

<p><b>1 Surface preparation of prosthetic restorations</b></p> <p><u>Silica-based Glass Ceramic</u> (e.g. Lithium Disilicate)</p>  <p>Apply a hydrofluoric acid, then rinse and dry</p>  <p>Blast with alumina powder (30~50µm, 0.2-0.4MPa/ 29-58 PSI/ 2-4 kgf/cm<sup>2</sup>), then ultrasonic clean and dry</p> <p><u>Metal-oxide</u> (e.g. Zirconia), <u>Metal</u> or <u>Composite resin</u></p> 	<p><b>2</b> Apply the mixture of BOND and CLEARFIL DC Activator*1, then dry by blowing mild air until the mixture does not move*2</p>  <p>5sec. + Dry</p> 	<p><b>3</b> Light-cure*3</p>  <p>Note</p>
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Note: Working time will be dramatically shortened when not light-curing

\*1 Dispense one drop each of BOND and CLEARFIL DC Activator and mix them.  
\*2 Use a vacuum aspirator to prevent the mixture from scattering.  
\*3 Refer to the Table 1 for light-curing time.

# Cementation of Indirect Restorations

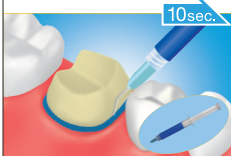
with Resin Cement (except for PANAVIA SA Cement Plus)

## 4 Tooth Pretreatment

Choose either etching procedure

a. Self-etching  
(Move to section 5)

b. Selective-etching\*\*<sup>4</sup>



c. Total-etching\*\*<sup>4</sup>



\*\*Refer to [Direct Restoration](#)

## 5 Apply the mixture<sup>5</sup> with a rubbing motion

No waiting time



## 6 Dry by blowing mild air until the mixture does not move<sup>6</sup>



## 7 Light-cure<sup>7</sup>



Note: Working time will be dramatically shortened when not light-curing

<sup>5</sup> Dispense one drop each of BOND and CLEARFIL DC Activator and mix them.

<sup>6</sup> Use a vacuum aspirator to prevent the mixture from scattering.

<sup>7</sup> Refer to the Table 1 for light-curing time.

## 8 Cementation using resin cement according to the manufacturer's instructions

