

CLEARFIL™ Universal Bond Quick

Bottle Flow Chart Sheet



INDICATIONS

- | | | |
|---|---|---|
| [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 / Core Build-up |
| [7] Cementation of indirect restorations | → | Cementation |

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

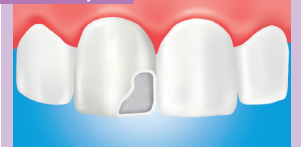


Kuraray Noritake Dental Inc.
1621 Sakazu, Kurashiki,
Okayama 710-0801, Japan

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 ²	10 seconds
		800-1400 mW/cm ²	10 seconds
LED	Blue LED*	More than 1500 mW/cm ²	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

- 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.
- Apply BOND with a rubbing motion**
No waiting time
- Dry by blowing mild air until BOND does not move**^{*1}
5sec. +
- Light-cure**^{*2}
- Place composite resin, light-cure and finish**

^{*1} Use a vacuum aspirator to prevent BOND from scattering.

^{*2} Refer to the Table 1 for light-curing time.

Intraoral Repair of Fractured Restorations

- Roughen, rinse and air dry**
- Apply K-ETCHANT Syringe, then rinse and dry**
5sec.
- Apply BOND with a rubbing motion**
No waiting time
- Dry by blowing mild air until BOND does not move**^{*1}
5sec. +
- Light-cure**^{*2}
- Place composite resin^{*3}, light-cure and finish**

^{*1} Use a vacuum aspirator to prevent BOND from scattering.

^{*2} Refer to the Table 1 for light-curing time.

^{*3} 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

- Post Pretreatment**
 - For Glass Fiber Post**
 - [1] Apply K-ETCHANT Syringe, rinse and dry 5sec.
 - [2] Apply BOND, then dry by blowing mild air 5sec. Dry
 - For Metal Post**
 - [1] Blast with alumina powder, then ultrasonic clean and dry
- Tooth Pretreatment**
Choose either etching procedure
 - a. Self-etching (Move to section 3)
 - b. Selective-etching^{*1}
10sec.
 - c. Total-etching^{*1}
10sec.
- Apply BOND with a rubbing motion**
No waiting time
- Dry by blowing mild air and paper point until BOND does not move**^{*2}
5sec. +
- Light-cure**^{*3}
- Post cementation and core build-up using CLEARFIL DC CORE PLUS according to the manufacturer's instructions**

^{*2} Use a vacuum aspirator to prevent BOND from scattering.

^{*3} Refer to the Table 1 for light-curing time.

^{*1} Refer to **Direct Restoration**

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 **5sec.**

[2] Apply the mixture of BOND and CLEARFIL DC Activator*1, then dry by blowing mild air **5sec. Dry**

[3] Light-cure*2 **Note**

For Metal Post

[1] Blast with alumina powder, then ultrasonic clean and dry **5sec.**

[2] Apply the mixture*1, then dry by blowing mild air **5sec. Dry**

[3] Light-cure*2 **Note**

2 Tooth Pretreatment

Choose either etching procedure

a. Self-etching (Move to section 3)

b. Selective-etching*3 **10sec.**

c. Total-etching*3 **10sec.**

3 Apply the mixture*1 with a rubbing motion

No waiting time

4 Dry by blowing mild air and paper point until the mixture does not move*4

5sec.+

5 Light-cure*2

Note

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.
 *3 Refer to Direct Restoration
 *4 Use a vacuum aspirator to prevent the mixture from scattering.

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

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*3 **10sec.**

c. Total-etching*3 **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 Cementation using PANAVIA SA Cement Plus according to the manufacturer's instructions

*3 Refer to Direct Restoration

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

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 the mixture of BOND and CLEARFIL DC Activator*1, then dry by blowing mild air until the mixture does not move*2

5sec.+ Dry

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

3 Light-cure*3

Note

4 Tooth Pretreatment

Choose either etching procedure

a. Self-etching (Move to section 5)

b. Selective-etching*4 **10sec.**

c. Total-etching*4 **10sec.**

5 Apply the mixture*1 with a rubbing motion

No waiting time

6 Dry by blowing mild air until the mixture does not move*2

5sec.+

7 Light-cure*3

Note

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

*4 Refer to Direct Restoration