

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.



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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***
5sec. +
- Light-cure****
- 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***
5sec. +
- Light-cure****
- 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.
*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****
5sec. +
- Light-cure****
- Post cementation and core build-up using CLEARFIL DC CORE PLUS according to the manufacturer's instructions**

*1 Refer to Direct Restoration
*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 **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 PANA VIA 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.**

*3 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*2

5sec.+

6 Cementation using PANA VIA SA Cement Plus according to the manufacturer's instructions

Cementation of Indirect Restorations with Resin Cement (except for PANA VIA 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

*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.

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.**

*4 Refer to Direct Restoration

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