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DENTAL BONDING AGENTS

CLEARFIL™ Universal Bond Quick 2

Bottle Flow Chart Sheet

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INDICATIONS

	CASE
[1] Direct restorations using light-cured composite resin	Direct restoration
[2] Sealing of a prepared cavity or abutment tooth as a pretreatment for indirect restorations	Sealing of a prepared abutment tooth
[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 [3] and [4] of indications.

Table 1: Dental curing unit and curing time

Type	Light source	Light Intensity	Light-curing time
Halogen	Halogen lamp	More than 400 mW/cm²	10 seconds
LED	Blue LED*	800-1400 mW/cm²	10 seconds
		More than 1500 mW/cm²	5 seconds

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

If the treated surface is contaminated, KATANA™ Cleaner can be selected to clean the adherent surfaces. When using KATANA™ Cleaner, follow the Instructions for Use.

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

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

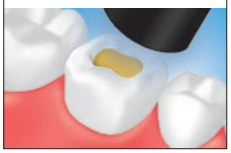
2 Apply BOND with a rubbing motion

No waiting time

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

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

4 Light-cure*2



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

5 Place composite resin, light-cure and finish

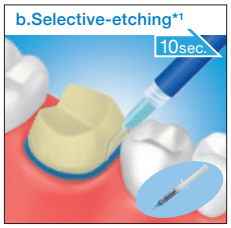
Sealing of a prepared abutment tooth as a pretreatment for indirect restorations

Follow the standard procedure for isolation, moisture control, preparation of abutment tooth

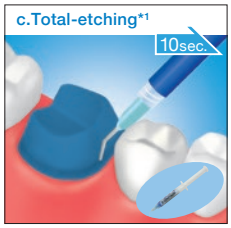
1 Tooth pretreatment
Choose either etching procedure

a.Self-etching (Move to section 2)

b.Selective-etching*1



c.Total-etching*1



*1 Refer to Direct Restoration

2 Apply BOND with a rubbing motion

No waiting time

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

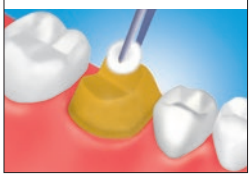
*2 Use a vacuum aspirator to prevent BOND from scattering.

4 Light-cure*3

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

5 If necessary, place a thin coat of composite resin (e.g. CLEARFIL MAJESTY ES Flow) onto the tooth, light-cure according to the manufacturer's instructions.

6 Wipe the surface to remove the un-polymerized layer (oxygen inhibited layer)*4



*4 Use a cotton pellet or a gauze moistened with alcohol.

Intraoral repair of fractured restorations

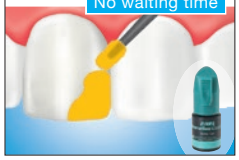
1 Roughen, rinse and air dry

2 Apply K-ETCHANT Syringe, then rinse and dry*1

*1 This acid etching is not necessary for non-precious metal and metal oxide ceramic.

3 Apply BOND with a rubbing motion

No waiting time



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

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

5 Light-cure*3

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

6 Place composite resin*4, light-cure and finish

*4 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 isolation, moisture control and preparation of root canal and cavity

1 Post pretreatment

For glass fiber post

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

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

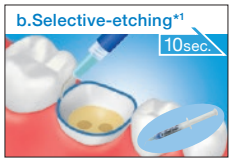
For metal post

[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



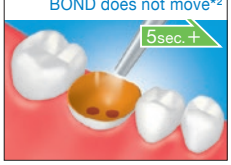
c.Total-etching*1

*1 Refer to Direct Restoration

3 Apply BOND with a rubbing motion

No waiting time

4 Dry by blowing mild air and paper point until BOND does not move*2

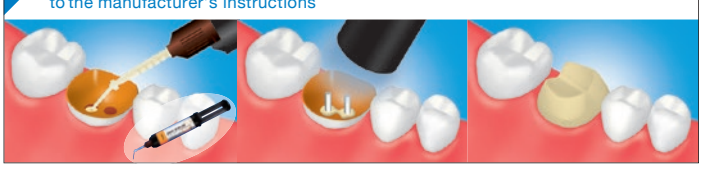


*2 Use a vacuum aspirator to prevent BOND from scattering.

5 Light-cure*3

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

6 Post cementation and core build-up using CLEARFIL DC CORE PLUS according to the manufacturer's instructions



Post cementation / Core build-ups *with other core material (except for CLEARFIL DC CORE PLUS)*

Follow the standard procedures for isolation, moisture control and preparation of 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 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

*4 Use a vacuum aspirator to prevent the mixture from scattering.

6 Post cementation and build-up by core material according to the manufacturer's instructions

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 Table 1 for light-curing time.
*3 Refer to Direct Restoration

Cementation of indirect restorations *with Kuraray's self-adhesive cements*

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 wash and dry — Hydrofluoric acid

Metal oxide ceramics (e.g. zirconia), metals or composite resins — or — Blast with alumina powder (30-50µm/ 0.1-0.4MPa/ 14-58 PSI/ 1-4 bar), then ultrasonic clean and dry

2 Tooth Pretreatment
Choose either etching procedure

a.Self-etching (Move to section 3)

b.Selective-etching*1 — 10sec.

c.Total-etching*1 — 10sec.

3 Apply BOND with a rubbing motion — No waiting time

4 Dry by blowing mild air until BOND does not move*2 — 5sec.+

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

5 Cementation using Kuraray's self-adhesive cements according to the manufacturer's instructions

Note: When using a partial light-curing (or "Tack-Cure") technique, the setting time of the excess cement will be shorter.

*1 Refer to Direct Restoration

Cementation of indirect restorations
with self-adhesive resin cement without any specific instructions to pretreatment the adherent surface

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 wash and dry — Hydrofluoric acid

Metal oxide ceramics (e.g. zirconia), metals or composite resins — or — Blast with alumina powder (30-50µm/ 0.1-0.4MPa/ 14-58 PSI/ 1-4 bar), 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

3 Light-cure*3 — 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 Use a vacuum aspirator to prevent the mixture from scattering.
*3 Refer to Table 1 for light-curing time.

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 BOND with a rubbing motion — No waiting time

6 Dry by blowing mild air until BOND does not move*5 — 5sec.+

7 Light-cure*3 — Note

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

*5 Use a vacuum aspirator to prevent BOND from scattering.

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

Note: When using a partial light-curing (or "Tack-Cure") technique, the setting time of the excess cement will be shorter.