



INDICATIONS

- | | | |
|--|---|---|
| [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/cm ² | 10 seconds |
| LED | Blue LED* | 800-1400 mW/cm ² | 10 seconds |
| | | 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

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.



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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



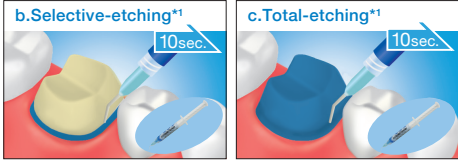




*2 Refer to Table 1 for light-curing time.

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

| | | |
|---|--|--|
| <p>1 Tooth pretreatment Choose either etching procedure</p> <p>a. Self-etching (Move to section 2)</p> <p>b. Selective-etching*¹ 10sec.</p> <p>c. Total-etching*¹ 10sec.</p>  | <p>2 Apply BOND with a rubbing motion No waiting time</p>  | |
| <p>3 Dry by blowing mild air until BOND does not move*² 5sec. +</p>  | <p>4 Light-cure*³</p>  | <p>6 Wipe the surface to remove the un-polymerized layer (oxygen inhibited layer)*⁴</p>  |
| <p>*² Use a vacuum aspirator to prevent BOND from scattering.</p> | <p>*³ Refer to Table 1 for light-curing time.</p> <p>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.</p> | <p>*⁴ Use a cotton pellet or a gauze moistened with alcohol.</p> |

Intraoral repair of fractured restorations



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



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



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



*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 **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

2 Tooth pretreatment

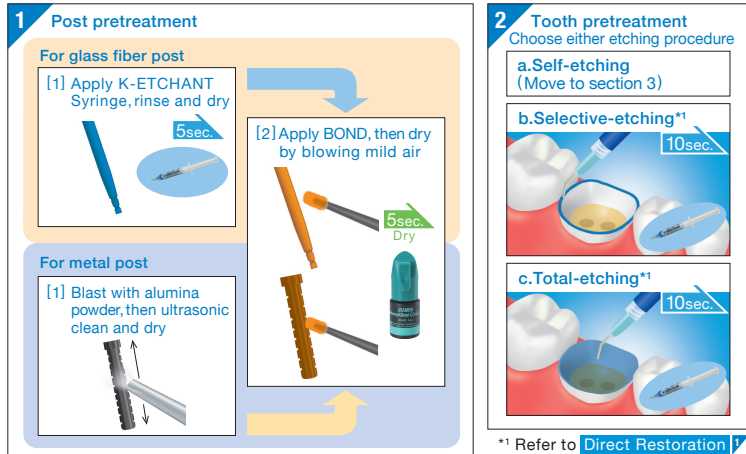
Choose either etching procedure

a. Self-etching (Move to section 3)

b. Selective-etching*¹ **10sec.**

c. Total-etching*¹ **10sec.**

*¹ Refer to **Direct Restoration**



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Post cementation / Core build-ups with CLEARFIL DC CORE PLUS



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

*3 Refer to 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 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] Apply the mixture of BOND and CLEARFIL DC Activator*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.**



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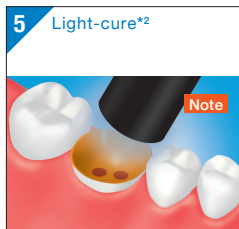
Note: Working time will be dramatically shortened when not light-curing

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

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

*3 Refer to **Direct Restoration**

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

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



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

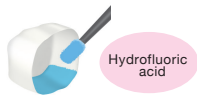
Clean and dry the tooth surface, and then trial fit the prosthetic restoration

1 Surface preparation of prosthetic restorations

Silica-based glass ceramic (e.g. lithium disilicate)



Apply a hydrofluoric acid, then wash and dry



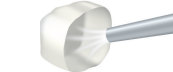
Metal oxide ceramics (e.g. zirconia), metals or composite resins



or



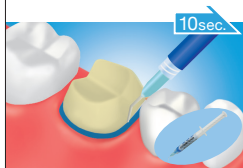
Blast with alumina powder (30-50µm/ 0.1-0.4MPa/ 14-58 PSI/ 1-4 bar), then ultrasonic clean and dry



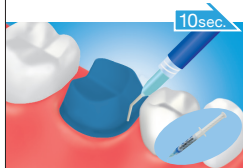
2 Tooth Pretreatment Choose either etching procedure

a. Self-etching
(Move to section 3)

b. Selective-etching*¹



c. Total-etching*¹



*¹ Refer to [Direct Restoration](#) !

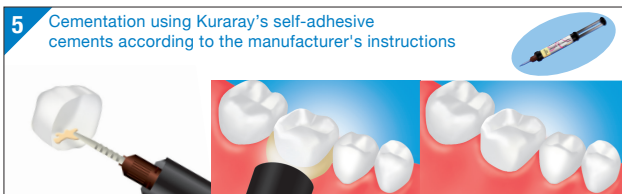


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Cementation of indirect restorations with Kuraray's self-adhesive cements



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



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

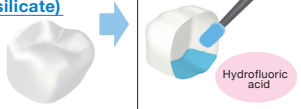
Cementation of indirect restorations

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




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.


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


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 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**



*⁴ Refer to [Direct Restoration](#)

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