**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**

1. **Self-etching**
   - (Move to section 2)

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

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

### Apply BOND with a rubbing motion

**No waiting time**

**Light-cure**

**5sec.**

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

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**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**
   - **No waiting time**
4. **Dry by blowing mild air until BOND does not move**
   - **5sec.**
5. **Light-cure**
6. **Place composite resin, light-cure and finish**

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**Post Cementation / Core Build-ups**

*with CLEARFIL DC CORE PLUS*

Follow the standard procedures for moisture control and preparing root canal.

### Tooth Pretreatment

**Choose either etching procedure**

1. **Self-etching**
   - (Move to section 3)

2. **Selective-etching**
   - **10sec.**

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

### Apply BOND with a rubbing motion

**No waiting time**

**Light-cure**

**5sec.**

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

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**Table 1: Dental curing unit and curing time**

<table>
<thead>
<tr>
<th>Type</th>
<th>Light source</th>
<th>Light Intensity</th>
<th>Light-curing time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Halogen</td>
<td>Halogen lamp</td>
<td>More than 400 mW/cm²</td>
<td>10 seconds</td>
</tr>
<tr>
<td>LED</td>
<td>Blue LED*</td>
<td>800-1400 mW/cm²</td>
<td>10 seconds</td>
</tr>
<tr>
<td></td>
<td></td>
<td>More than 1500 mW/cm²</td>
<td>5 seconds</td>
</tr>
</tbody>
</table>

* The effective wavelength range of each dental curing unit must be 400-515nm. * Peak of emission spectrum: 450-460nm.
**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**
   - **For Metal Post**

2. **Tooth Pretreatment**
   - Choose either etching procedure
   - **a. Self-etching**
   - **b. Selective-etching***
   - **c. Total-etching***

3. **Light-cure**
   - **Note:** Apply BOND with a rubbing motion
   - **Dry by blowing mild air and paper point until the mixture does not move***
   - **Light-cure***

4. **Post cementation and build-up by core material according to the manufacturer’s instructions**

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

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

2. **Apply a hydrofluoric acid, then rinse and dry**
   - **Hydrofluoric acid**

3. **Blast with alumina powder (30~50μm, 0.2~0.4MPa/29~58 PSI/2~4 kgf/cm2), then ultrasonic clean and dry**

4. **Apply BOND***
   - **Dry by blowing mild air until BOND does not move***
   - **Light-cure***

5. **Apply BOND with a rubbing motion**
   - **Dry by blowing mild air until BOND does not move***

6. **Cementation using PANAVIA SA Cement Plus according to the manufacturer’s instructions**

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**Cementation of Indirect Restorations**

*with Resin Cement*

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

2. **Apply a hydrofluoric acid, then rinse and dry**
   - **Hydrofluoric acid**

3. **Blast with alumina powder (30~50μm, 0.2~0.4MPa/29~58 PSI/2~4 kgf/cm2), then ultrasonic clean and dry**

4. **Apply the mixture***
   - **Light-cure***

5. **Apply the mixture***
   - **Light-cure***

6. **Cementation using resin cement according to the manufacturer’s instructions**

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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 Direct Restoration

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