INDICATIONS

**Case A**
Cementation of crowns, bridges, inlays and onlays

**A-1**
Made of metal

**A-2**
Made of conventional porcelain, ceramic, hybrid ceramics or composite resin

**Case B**
Cementation of veneers

**Case C**
Cementation of adhesion bridges

**Case D**
Cementation of metal cores, resin cores, metal posts or glass-fiber posts

**Case E**
Amalgam bonding
## Dental curing unit type and light-curing time

<table>
<thead>
<tr>
<th>Type</th>
<th>Light source</th>
<th>Wavelength range and light intensity</th>
<th>Light-curing time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional halogen</td>
<td>Halogen lamp</td>
<td>Light intensity of 300 – 550 mW/cm² in wavelength range from 400 – 515 nm</td>
<td>20 sec.</td>
</tr>
<tr>
<td>Fast halogen</td>
<td>Halogen lamp</td>
<td>Light intensity of more than 550 mW/cm² in wavelength range from 400 – 515 nm</td>
<td>5 sec.</td>
</tr>
<tr>
<td>Plasma arc</td>
<td>Xenon lamp</td>
<td>Light intensity of more than 2000 mW/cm² in wavelength range from 400 – 515 nm, and light intensity of more than 450 mW/cm² in wavelength range from 400 – 430 nm</td>
<td>5 sec.</td>
</tr>
<tr>
<td>LED</td>
<td>Blue LED</td>
<td>Light intensity of more than 300 mW/cm² in wavelength range from 400 – 515 nm</td>
<td>20 sec.</td>
</tr>
</tbody>
</table>

## We mention the abbreviated product name in this sheet.

<table>
<thead>
<tr>
<th>Product</th>
<th>Abbreviated product name</th>
</tr>
</thead>
<tbody>
<tr>
<td>PANAVIA™ F 2.0 Paste</td>
<td>Paste</td>
</tr>
<tr>
<td>PANAVIA™ F 2.0 ED PRIMER II</td>
<td>ED PRIMER II</td>
</tr>
<tr>
<td>ALLOY PRIMER</td>
<td></td>
</tr>
<tr>
<td>CLEARFIL™ CERAMIC PRIMER</td>
<td>CERAMIC PRIMER</td>
</tr>
<tr>
<td>PANAVIA™ F 2.0 OXYGUARD II</td>
<td>OXYGUARD II</td>
</tr>
</tbody>
</table>
Case A-1
Cementation of crowns, bridges, inlays and onlays made of metal

1. Sandblast, then ultrasonic clean and dry.
2. Apply ALLOY PRIMER to the adherent surface if precious metal are used.
4. Apply mixed ED PRIMER II to the abutment surface and leave for 30 sec.
   *The mixture must be used within 5 min. after mixing.
5. Remove any excess ED PRIMER II and dry.
6. Dispense equal amounts of paste A&B.
8. Apply the mixture to the restoration.
Cementation of crowns, bridges, inlays and onlays made of metal

Case A-1

Light-cure the margins. *Refer to the table for light-curing time.

自体硬化法

Self-cure the paste by applying OXYGUARD II to the margins. Then, wait for 3 min. and wash.

3 min

Cement the restoration to the abutment surface and remove the excess paste.
Case A-2
Cementation of crowns, bridges, inlays and onlays made of conventional porcelain, ceramic, hybrid ceramics or composite resin

1. Sandblast, then ultrasonic clean and dry.
2. Apply phosphoric acid (e.g. K-ETCHANT GEL) to clean surface for 5 sec. Rinse and dry.
3. Apply CERAMIC PRIMER to the adherent surface, and dry.
   *The mixture must be used within 5 min. after mixing.
5. Apply mixed ED PRIMER II to the abutment surface and leave for 30 sec.
6. Remove any excess ED PRIMER II and dry.
7. Dispense equal amounts of paste A&B.

For cementation of zirconia or alumina restorations, step 2 and 3 are not required.
Apply the mixture to the restoration.

Cement the restoration to the abutment surface and remove the excess paste.

Light-cure the margins.
*Refer to the table for light-curing time

Self-cure the paste by applying OXYGUARD II to the margins. Then, wait for 3 min. and wash.

OR

3 min
Cementation of veneers

**Case B**

As necessary, sandblast the adherent surface of veneer with care to prevent the edges from chipping, then ultrasonic clean and dry.

1. Apply phosphoric acid (e.g., K-ETCHANT GEL) to the adherent surface, leave for 5 sec., wash and dry.

2. Apply phosphoric acid (e.g., K-ETCHANT GEL) to the enamel surface for 10 sec. Rinse and dry.

3. Apply CERAMIC PRIMER to the adherent surface, and dry.

4. Apply phosphoric acid (e.g., K-ETCHANT GEL) to the enamel surface for 10 sec. Rinse and dry.


6. Apply mixed ED PRIMER II to the abutment surface and leave for 30 sec.

7. Remove any excess ED PRIMER II and dry.

8. Dispense equal amounts of paste A&B.

*The mixture must be used within 5 min. after mixing.*
**Case B**
Cementation of veneers


10. Apply the mixture to the restoration.

11. Cement the veneer to the tooth and remove the excess paste.

12a. Light-cure the margins.
*Refer to the table for light-curing time.

12b. Self-cure the paste by applying OXYGUARD II to the margins. Then, wait for 3 min. and wash.

**OR**

3 min
Case C
Cementation of adhesion bridges

1. Sandblast, then ultrasonic clean and dry.
2. Apply ALLOY PRIMER to the adherent surface if precious metal are used.
3. Apply phosphoric acid (e.g. K-ETCHANT GEL) to the enamel surface for 10 sec. Rinse and dry.
   * The mixture must be used within 5 min. after mixing.
5. Apply mixed ED PRIMER II to the abutment surface and leave for 30 sec.
6. Remove any excess ED PRIMER II and dry.
7. Dispense equal amounts of paste A&B.
Apply the mixture to the restoration.

Cement the restoration to the abutment surface and remove the excess paste.

9

10

Light-cure the margins.

*Refer to the table for light-curing time

11-a

Self-cure the paste by applying OXYGUARD II to the margins. Then, wait for 3 min. and wash.

11-b

OR

3 min
Treatment of post surface.

1. For metal post: Sandblasting, then ultrasonic clean and dry. If the post is precious metal, apply ALLOY PRIMER and dry.

   For glass-fiber post: Apply phosphoric acid (e.g. K-ETCHANT GEL), leave for 5 sec., wash and dry. Apply CERAMIC PRIMER, and dry.


3. Apply the mixed primer to the root canal and the cavity wall, and leave for 30 seconds.

   *The mixture must be used within 5 min. after mixing.

4. Wipe away the excess mixed primer and dry.

5. Dispense equal amounts of paste A&B.


7. Coat posts with mixed paste.
Case D
Cementation of metal cores, resin cores, metal posts or glass-fiber posts

8. Seat posts and spread the excess paste to the coronal base. Light-cure the paste. *Refer to the table for light-curing time

9. Place a build-up composite resin according to the Instructions for use.
**Case E**
Amalgam bonding

   - The mixture must be used within 5 min. after mixing.

2. Apply mixed ED PRIMER II to the cavity surface and leave for 30 sec.
   - **30 s**

3. Remove any excess ED PRIMER II and dry.

4. Dispense equal amounts of paste A&B.
   - mark reference line


6. Apply mixture of paste to the cavity.

7. Mix and place the amalgam.

8. Complete the carving and remove the matrix band.
Case E
Amalgam bonding

9 Remove the excess paste.

10a Light-cure the margins. *Refer to the table for light-curing time.

10b Self-cure the paste by applying OXYGUARD II to the margins. Then, wait for 3 min. and wash.

11 Complete the polishing.

OR

3 min