Calibra® Cements

The Simple Choice for Easy Cleanup
www.CalibraCement.com
The Calibra® family of definitive cements was designed to make it easier than ever to achieve consistent, successful results in your indirect restorations. Whichever Calibra cement you choose for your procedure, you’ll benefit from a wide tack cure window and thorough, unhurried cleanup of excess cement.

**Calibra® Universal**  
Self-Adhesive Resin Cement

The routine, self-adhesive cement for nearly any indication*  
• No need for a separate bonding agent  
• Wide indications for use

**Calibra® Ceram**  
Adhesive Resin Cement

The maximum strength adhesive cement  
• Immediate and long-term maximum bond strengths  
• Balanced system of strength and ease of use

**Calibra® Veneer**  
Esthetic Resin Cement

The enduring, esthetic veneer cement  
• More than 15 years of clinical performance  
• Thixotropic nature for favorable handling

* Calibra Universal Cement is intended for the cementation of indirect restorations including ceramic, composite and metal based inlays, onlays, crowns, bridges, and posts.
## Calibra® Family of Definitive Cements

### Cement Selection Tool

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## Tips on Material Pre-Treatment

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<td>Glass Ceramic/High Strength Glass Ceramic</td>
<td>Etch with hydrofluoric acid, silanize with Calibra® Silane Coupling Agent</td>
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<tr>
<td>Zirconia/Metal</td>
<td>Sandblast (except for zirconia post surface)</td>
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*Some manufacturers may require additional primers. Please consult directions for use.
THE ROUTINE, SELF-ADHESIVE CEMENT FOR NEARLY ANY INDICATION*

No need for a separate bonding agent; wide indications for use
**Technique Guide**

1. **PRE-TREATMENT**
   - Follow dental lab or restoration manufacturer’s directions for pre-treatment of the intaglio surface of the restoration, if required.

2. **APPLY CALIBRA UNIVERSAL CEMENT**
   - Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip. Apply a thin, uniform layer of Calibra Universal Cement to the entire intaglio surface of the restoration.

3. **SEAT RESTORATION**
   - Protect restoration from contamination and movement until the final set of the cement (6 minutes from start of mix or completion of light curing).

4a. **CLEAN UP EXCESS: SELF CURE**
   - The excess cement will reach the “gelled” state after approximately 1-2 minutes in the mouth. Excess cement will remain in the gelled state for approximately 1 minute.
   - *NOTE:* Cement within the crown has not yet set. Do not move, torque, or disturb the crown during cleanup.

4b. **CLEAN UP EXCESS: DUAL CURE**
   - Light curing to facilitate cleanup must be accomplished within the first minute following intraoral insertion. Light cure excess cement at the margins by constantly moving the curing light tip around the margins for no more than 5 seconds per surface (buccal and lingual). Excess cement will reach a “gelled” state after this brief cure. The excess cement will remain in the “gelled” state for approximately 45 seconds following light exposure.
REMOVE EXCESS CEMENT
Protect restoration from movement during the gel phase cleanup through the final set.

SELF CURE AND DUAL CURE FOR NON-LIGHT TRANSMISSIBLE RESTORATIONS
Light cure margins for 20–40 seconds (in dual cure mode). Allow Calibra Universal Cement to self cure without disturbing for 6 minutes from start of mix.

FINISH & POLISH
Removal of resin flash is best accomplished with the Enhance® Finishing System and polish using Enhance® PoGo® Polishing System (see complete Directions for Use).

Additional Technique Tips
• Tooth preparation should leave the tooth surface moist, evenly glistening with moisture. Over-dried preparations, and wet preparations (with pooled surface water), can reduce adhesion.
• For excess cement cleanup, monowave output LED lights with a single peak output around 470nm are recommended. High power, dual or broad spectrum lights may cause premature hardening of excess cement. Check curing light effect on mixed cement prior to clinical use.
• Remove floss horizontally through interproximals during cleanup so as not to dislodge the restoration before the cement has completely set.
• Cement at the margins may appear set before cement within the restoration is set. Do not move, torque or disturb restoration until final set of the cement (6 min. from the start of mix or in the case of light-transmissible restorations upon completion of light curing).
• Stabilize restorations with occlusal pressure while the patient waits the full 6 minutes from start of mix in self cure and dual cure mode or upon completion of light curing each surface (buccal, lingual, occlusal).
THE MAXIMUM STRENGTH ADHESIVE CEMENT

Immediate and long-term maximum bond strengths; balanced system of strength and ease of use
Technique Guide

1. **PRE-TREATMENT**
   Follow dental lab or restoration manufacturer’s directions for pre-treatment of the intaglio surface of the restoration, if required.

2. **APPLY ADHESIVE TO TOOTH**
   Apply generous amounts of Prime&Bond elect adhesive to thoroughly wet all the tooth surfaces. No need for Self Cure Activator when Prime&Bond elect adhesive is used with Calibra Ceram cement. Agitate the applied adhesive for 20 seconds.

   *Note:* Phosphoric etching of available enamel recommended. Conditioning of dentin is optional.

3. **AIR DRY**
   Gently dry with clean air for 5 seconds.

4. **LIGHT CURE – 10 SECONDS**
   Special instruction for use with light transmissible crowns only: Light curing of applied Prime&Bond elect adhesive may be accomplished right after seating restoration with cement. See step 9.

5. **APPLY CALIBRA CERAM CEMENT**
   Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip. Apply a thin, uniform layer of cement to the entire intaglio surface of the restoration.

6. **SEAT RESTORATION**
   Protect restoration from contamination and movement until the final set of the cement (5 minutes from start of mix or completion of light curing).
Technique Guide Cont’d

CLEAN UP EXCESS – OPTIONAL DUAL CURE
Briefly light cure cement at the margins by constantly moving the curing tip around the margins for no more than 5 seconds per surface (buccal/oral). Excess cement will reach a “gelled” state after this brief cure. Excess cement will remain in the “gelled” state for approximately 45 seconds following light exposure.

CLEAN UP EXCESS – SELF CURE
Excess cement will reach the “gelled” state after approximately 1-2 minutes in the mouth, allowing easy removal. NOTE: Cement within the crown has not yet set. Do not move, torque, or disturb the crown during cleanup.

REMOVE EXCESS CEMENT
Protect restoration from movement during the gel phase cleanup through the final set.

LIGHT CURE FOR LIGHT TRANSMISSIBLE RESTORATIONS
Once cleanup is complete, light cure all areas of the restoration for 20 seconds from each direction – buccal, lingual, and occlusal.

SELF CURE AND DUAL CURE FOR NON-LIGHT TRANSMISSIBLE RESTORATIONS
For zirconia-based, metallic, thick or heavily opaqued ceramic or composite, once cleanup is completed and restoration is stabilized, allow Calibra Ceram Cement to self cure without disturbing for 5 minutes from start of mix. Following all excess removal, exposed margins may be light cured 20-40 seconds to assist restoration stabilization.
**FINISH & POLISH**
Removal of resin flash is best accomplished with the Enhance® Finishing System and polish using Enhance® PoGo® Polishing System (see complete Directions for Use).

**Additional Technique Tips**
- For Feldspathic Porcelain, Leucite-reinforced Ceramic, Lithium Disilicate Ceramic, Zirconia-reinforced Lithium Silicate: Etch the bonding surfaces with hydrofluoric acid and use Calibra Silane Coupling Agent on intaglio.
- For Zirconia-based Ceramic: Sandblast, use zirconia primer, if directed. Follow the dental laboratory or restoration manufacturer’s instructions for pre-treatment. If pre-treatment is needed, use manufacturer’s recommended zirconia primer (if any) followed by Prime&Bond elect® Adhesive on the intaglio surface of the restoration.
- For light transmissible restorations, when used with Prime&Bond elect Adhesive, light curing of adhesive can be done after seating the crown.
- For excess cement cleanup, monowave output LED lights with a single peak output around 470nm are recommended. High power, dual or broad spectrum lights may cause premature hardening of excess cement. Check curing light effect on mixed cement in the laboratory prior to clinical use.
THE ENDURING, ESTHETIC VENEER CEMENT

More than 15 years of clinical performance; thixotropic nature for favorable handling
Technique Guide

1. APPLY CALIBRA® TRY-IN PASTE
   - Gently seat onto preparation. Clean excess with a cotton pellet and/or blunt explorer. Shades may be blended to achieve optimum esthetics.
   - **Important Technique Tip:** Try-in paste is a guide for cement shade range selection only. **NOTE:** The try-in paste will not polymerize, thus offers unlimited work time.

2. CLEAN AND DRY
   - Once fit and esthetics are verified, thoroughly clean all internal surfaces of the veneer with water spray and dry.

3. PRE-TREATMENT
   - Apply 5% hydrofluoric acid (follow Directions for Use) to intaglio only. Dry thoroughly and apply Calibra Silane Coupling Agent and leave undisturbed for 60 seconds. Repeat application if layer has dried up. Evaporate solvent with a strong air stream.

4. APPLY TOOTH CONDITIONER GEL
   - Apply tooth conditioner gel to available enamel (and dentin if desired). Rinse and blot dry to keep moist. Do not rub.
   - (In Europe: DeTrey Conditioner 36%)

5. APPLY ADHESIVE TO TOOTH
   - Apply Prime&Bond® XP Adhesive and leave undisturbed for 20 seconds.

6. AIR DRY
   - Gently air dry for 5 seconds.

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1. Follow restoration material’s Directions for Use
2. Please consult Directions for Use

Calibra® Veneer
Esthetic Resin Cement
CLEAN UP EXCESS
Tack the veneer in place by briefly light curing the gingival portion only for no more than 10 seconds.

REMOVE EXCESS CEMENT
Remove mylar strip and lift off excess cement around margins.

LIGHT CURE
Light cure all marginal areas for 20 seconds from each direction - buccal, lingual and interproximal aspects.

APPLY CALIBRA VENEER CEMENT
Dispense the desired Calibra Veneer Cement shade directly onto the veneer. Protect cement from exposure to light.

SEAT RESTORATION
If possible, place mylar strips between preparation and adjacent teeth. Seat restoration slowly.

LIGHT CURE
Light cure adhesive for 10 seconds
FINISH & POLISH
Removal of resin flash is best accomplished with the Enhance® Finishing System and polish using Enhance® PoGo® Polishing System (see complete Directions for Use).
Choosing the right cementation solution is essential for restoration success. Using products that were designed to work together gives you the best chance to achieve success with every restoration.

**Celtra® Duo**  
Zirconia-Reinforced Lithium Silicate (ZLS)

**Calibra® Ceram**  
Adhesive Resin Cement

Count on the choice and control provided by Celtra Duo (ZLS), along with confidence of long-term restoration retention from Calibra Ceram cement. For high retention and bond strength coupled with simple steps and ease of use, the choice is clear.

**CEREC® Zirconia**  
Translucent Zirconium Oxide Block

**Calibra® Universal**  
Self-Adhesive Resin Cement

Benefit from easy-to-use application with no separate bonding agent. Together, Calibra Universal cement and CEREC Zirconia offer a simple solution for long-lasting success.
# Cementation Tips

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<th>Celtra Duo (ZLS)</th>
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<tbody>
<tr>
<td>Try-In</td>
<td>• Try-In for crown fit &lt;br&gt;• Clean with an ultrasonic or steam cleaner or with alcohol</td>
<td>• Try-In for crown fit and shade selection &lt;br&gt;• Clean with an ultrasonic or steam cleaner or with alcohol</td>
</tr>
<tr>
<td>Pre-treatment</td>
<td>Sandblast</td>
<td>Use Hydrofluoric Acid</td>
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<tr>
<td>Prime</td>
<td>No need for zirconia primer</td>
<td>Use Calibra® Silane Coupling Agent</td>
</tr>
<tr>
<td>Bond</td>
<td>No need for an adhesive</td>
<td>Apply Prime&amp;Bond elect® Adhesive (to tooth only)</td>
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<tr>
<td>Cement</td>
<td>• Use conventional cements or Calibra® Universal Cement. &lt;br&gt;• For enhanced retention, use Calibra® Ceram Cement.</td>
<td>Use Calibra Ceram Cement. For Celtra Duo (ZLS) (fired) on retentive preparation Calibra Universal Cement may be used.</td>
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</table>
Cementation Technique with Calibra® Ceram Cement for Celtra Duo (ZLS)

1. **PRE-TREATMENT**
   Apply 5% hydrofluoric acid (follow Directions for Use) to intaglio only and allow to soak for 30 seconds. Dry thoroughly and apply Calibra Silane Coupling Agent and leave undisturbed for 60 seconds. Repeat application if layer has dried up. Evaporate solvent with a strong air stream.

2. **APPLY ADHESIVE TO TOOTH**
   Apply generous amounts of Prime&Bond elect® adhesive to thoroughly wet all the tooth surfaces. No need for Self Cure Activator when Prime&Bond elect adhesive is used with Calibra Ceram cement. Agitate the applied adhesive for 20 seconds.

3. **AIR DRY**
   Gently dry with clean air for 5 seconds. Light-cure adhesive for 10 seconds. Light curing of adhesive can also be done after seating for Celtra Duo (ZLS) or light transmissible restorations ≤ 2.5mm thick. See step 8.

4. **APPLY CALIBRA CERAM CEMENT**
   Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip. Apply a thin, uniform layer of cement to the entire intaglio surface of the restoration.

5. **SEAT RESTORATION**
   Protect restoration from contamination and movement until the final set of the cement (5 minutes from start of mix or completion of light curing).

**Note:** Phosphoric etching of available enamel recommended. Conditioning of dentin is optional.
CLEAN UP EXCESS
Briefly light cure cement at the margins by constantly moving the curing tip around the margins for no more than 5 seconds per surface (buccal/oral). Excess cement will reach a “gelled” state after this brief cure. Excess cement will remain in the “gelled” state for approximately 45 seconds following light exposure.

REMOVE EXCESS CEMENT
Protect restoration from movement during the gel phase cleanup through the final set.

LIGHT CURE FOR LIGHT TRANSMISSIBLE RESTORATIONS
Once cleanup is complete, light cure all areas of the restoration for 20 seconds from each direction – buccal, lingual, and occlusal.

FINISH AND POLISH
Removal of resin flash is best accomplished with the Enhance® Finishing System and polish using Enhance PoGo® Polishing System (see complete Directions for Use).

Additional Technique Tips
• Minimal Wall Thickness

- Always follow restoration material’s Directions for Use.
- For excess cement cleanup, monowave output LED lights with a single peak output around 470nm are recommended. High power, dual or broad spectrum lights may cause premature hardening of excess cement. Check curing light effect on mixed cement prior to clinical use.
Cementation Technique with Calibra® Universal Cement for CEREC Zirconia Blocks

1. **PRE-TREATMENT**
   Sandblast the internal surfaces with maximum 50μm alumina (AI2O3) at a pressure less than 2.5 bar. Do not touch the sandblasted surface if at all possible.

2. **APPLY CALIBRA UNIVERSAL CEMENT**
   Dispense and discard a small amount of material from the dual-barreled syringe. Attach mixing tip. Apply a thin, uniform layer of Calibra Universal Cement to the entire intaglio of the restoration.

3. **SEAT RESTORATION**
   Protect restoration from contamination and movement until the final set of the cement (6 minutes from start of mix or completion of light curing).

4. **CLEAN UP EXCESS**
   Briefly light cure cement at the margins by constantly moving the curing tip around the margins for no more than 5 seconds per surface (buccal/oral). Excess cement will reach a “gelled” state after this brief cure. Excess cement will remain in the “gelled” state for approximately 45 seconds following light exposure.

5. **REMOVE EXCESS CEMENT**
   Protect restoration from movement during the gel phase cleanup through the final set.

6. **SELF CURE AND DUAL CURE FOR NON-LIGHT TRANSMISSIBLE RESTORATIONS**
   Light cure margins for 20-40 seconds (in dual cure mode). Allow Calibra Universal Cement to self cure without disturbing for 6 minutes from start of mix.
FINISH AND POLISH
Removal of resin flash is best accomplished with the Enhance® Finishing System and polish using Enhance® PoGo® Polishing System (see complete Directions for Use).

Additional Technique Tips
• Minimal Wall Thickness

- Crown posterior
  - ≥ 1.0 mm
  - ≥ 0.8 - 1.0 mm
  - > 0.5 mm

- Crown anterior
  - ≥ 1.0 mm
  - ≥ 0.8 mm
  - 0.5 mm

• Etching with hydrofluoric acid does not produce a retentive surface. Silanization or priming of the CEREC Zirconia block is not required.

• After restoration try-in or adjustments, clean the restoration via ultrasonic in alcohol.

• Cement at the margins may appear set before cement within the restoration is set. Do not move, torque or disturb restoration until final set of cement (6 minutes from start of mix).

• Adhesive cementation (Calibra Ceram Cement) is indicated for enhanced retention of the zirconia restoration to the preparation.

• Monowave output LED lights with a single peak output around 470nm are recommended.