



# Calibra<sup>®</sup> Cements

The Simple Choice for Easy Cleanup

[www.CalibraCement.com](http://www.CalibraCement.com)

THE DENTAL  
SOLUTIONS  
COMPANY™

 Dentsply  
Sirona

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

Material	Indication	Preparation	Calibra® Cement
Composite/ Glass Ceramic	Crown	Retentive	Calibra® Ceram Cement
		Non-Retentive	Calibra® Ceram Cement
High Strength Glass Ceramic	Crown, Bridge	Retentive	Calibra® Universal Cement
		Non-Retentive	Calibra® Ceram Cement
Zirconia/Metal	Crown, Bridge	Retentive	Calibra® Universal Cement
		Non-Retentive	Calibra® Ceram Cement
	Endodonic Post		Calibra® Universal Cement
	Inlay, Onlay		Calibra® Ceram Cement
	Veneer		Calibra® Veneer Cement

# Tips on Material Pre-Treatment

Material	Pre-Treatment*
Composite	Sandblast (except for composite post surface)
Glass Ceramic/ High Strength Glass Ceramic	Etch with hydrofluoric acid, silanize with Calibra® Silane Coupling Agent
Zirconia/Metal	Sandblast (except for zirconia post surface)

*\*Some manufacturers may require additional primers. Please consult directions for use*

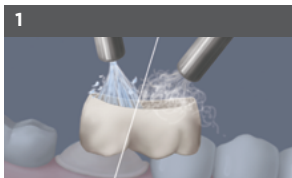
# THE ROUTINE, SELF-ADHESIVE CEMENT FOR NEARLY ANY INDICATION\*



No need for a separate bonding agent;  
wide indications for use

## Technique Guide

# Calibra® Universal Self-Adhesive Resin Cement



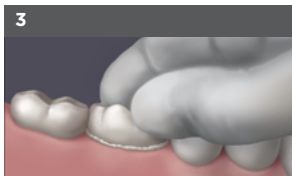
### 1 PRE-TREATMENT

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

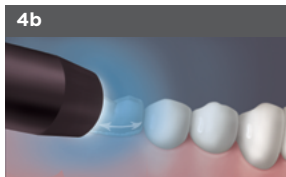
Protect restoration from contamination and movement until the final set of the cement (6 minutes from start of mix or completion of light curing).



### 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.*

-OR-

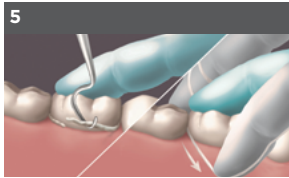


### 4b CLEAN UP EXCESS: DUAL CURE

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.

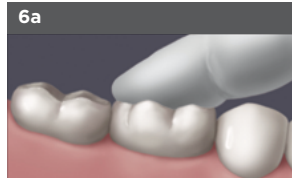
## Technique Guide Cont'd

# Calibra® Universal Self-Adhesive Resin Cement



### 5 REMOVE EXCESS CEMENT

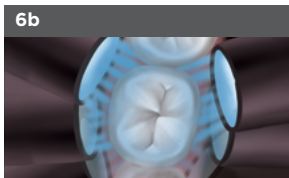
Protect restoration from movement during the gel phase cleanup through the final set.



### 6a 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.

-OR-



### 6b LIGHT CURE LIGHT TRANSMISSIBLE RESTORATIONS

Light cure all areas for 10 seconds from each direction - buccal, lingual and occlusal.



### 7 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

# Calibra® Ceram Adhesive Resin Cement

1



### PRE-TREATMENT

Follow dental lab or restoration manufacturer's directions for pre-treatment of the intaglio surface of the restoration, if required.

4



### LIGHT CURE - 10 SECONDS

Special instruction for use with light transmissible crowns only: Light curing of applied Prime&Bond active Adhesive may be accomplished right after seating restoration with cement. See step 9.

2

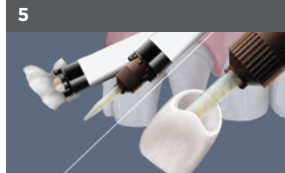


### APPLY ADHESIVE TO TOOTH

Apply Prime&Bond active Adhesive to all cavity surfaces. Avoid pooling. No need for Self Cure Activator when Prime&Bond active adhesive is used with Calibra Ceram Cement. Slightly agitate adhesive for 20 seconds.

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

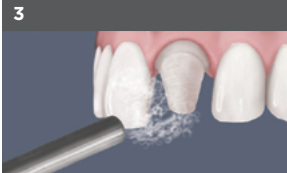
5



### 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.

3



### AIR DRY

Thoroughly dry with moderate air flow for at least 5 seconds.

6

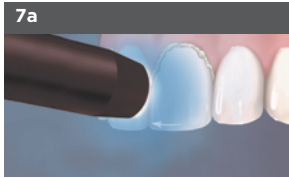


### SEAT RESTORATION

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

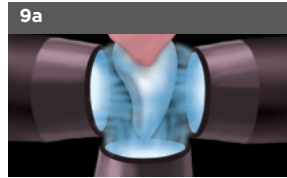
# Calibra® Ceram Adhesive Resin Cement



### **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.

-OR-



### **LIGHT CURE FOR LIGHT TRANSMISSIBLE RESTORATIONS**

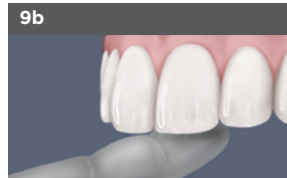
Once cleanup is complete, light cure all areas of the restoration for 20 seconds from each direction – buccal, lingual, and occlusal.

-OR-



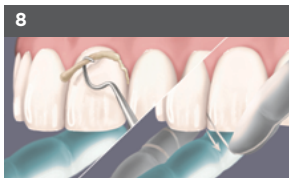
### **CLEAN UP EXCESS – SELF CURE**

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.*



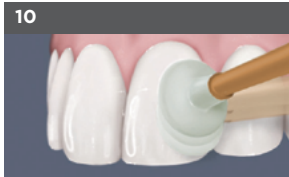
### **SELF CURE AND DUAL CURE FOR NON-LIGHT TRANSMISSIBLE RESTORATIONS**

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.



### **REMOVE EXCESS CEMENT**

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



### **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, metal restorations apply Prime&Bond active™ Adhesive to the intaglio surface of the restoration.
- For light transmissible restorations, when used with Prime&Bond active 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 prior to clinical use.

# THE ENDURING, ESTHETIC VENEER CEMENT

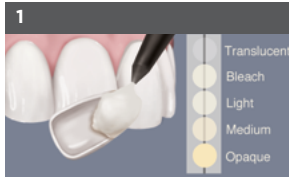


More than 15 years of clinical performance;  
thixotropic nature for favorable handling

Calibra® Veneer  
Esthetic Resin Cement

## Technique Guide

# Calibra® Veneer Esthetic Resin Cement



### 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.*



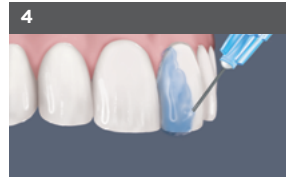
### CLEAN AND DRY

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



### PRE-TREATMENT<sup>1</sup>

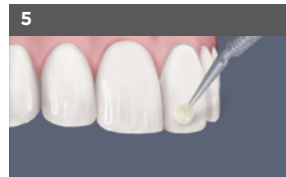
Apply 5% hydrofluoric acid (follow Directions for Use) to intaglio only. Dry thoroughly and apply Calibra Silane Coupling Agent and leave undisturbed for 60 seconds. Repeat application if layer has dried up. Evaporate solvent with a strong air stream.



### APPLY TOOTH CONDITIONER GEL<sup>2</sup>

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%)



### APPLY ADHESIVE TO TOOTH

Apply Prime&Bond® XP<sup>2</sup> Adhesive and leave undisturbed for 20 seconds.



### AIR DRY

Gently air dry for 5 seconds.

## Technique Guide Cont'd

# Calibra® Veneer Esthetic Resin Cement



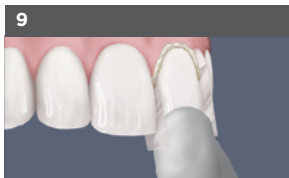
### LIGHT CURE

Light cure adhesive for 10 seconds



### APPLY CALIBRA VENEER CEMENT

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



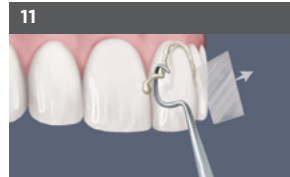
### SEAT RESTORATION

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



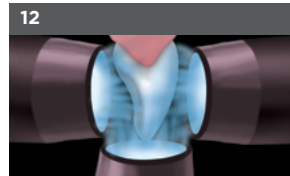
### CLEAN UP EXCESS

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.

## Technique Guide Cont'd

# Calibra® Veneer Esthetic Resin Cement



### **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

CEREC® Zirconia  
Translucent Zirconium  
Oxide Block

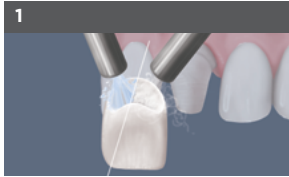
Celtra® Duo  
Zirconia-Reinforced  
Lithium Silicate (ZLS)

Step	CEREC Zirconia	Celtra Duo (ZLS)
Try-In	<ul style="list-style-type: none"> <li>• Try-In for crown fit</li> <li>• Clean with an ultrasonic or steam cleaner or with alcohol</li> </ul>	<ul style="list-style-type: none"> <li>• Try-In for crown fit and shade selection</li> <li>• Clean with an ultrasonic or steam cleaner or with alcohol</li> </ul>
Pre-treatment	Sandblast	Use Hydrofluoric Acid
Prime	No need for zirconia primer	Use Calibra® Silane Coupling Agent
Bond	No need for an adhesive	Apply Prime&Bond active™ Adhesive (to tooth only)
Cement	<ul style="list-style-type: none"> <li>• Use conventional cements or Calibra® Universal Cement.</li> <li>• For enhanced retention, use Calibra® Ceram Cement.</li> </ul>	Use Calibra Ceram Cement. For Celtra Duo (ZLS) (fired) on retentive preparation Calibra Universal Cement may be used.



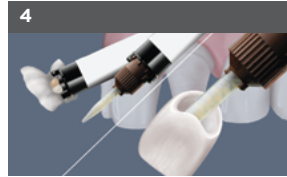
# Cementation Technique with Calibra® Ceram Cement for Celtra Duo (ZLS)

Celtra® Duo  
Zirconia-Reinforced  
Lithium Silicate (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.



## 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.



## 2 APPLY ADHESIVE TO TOOTH

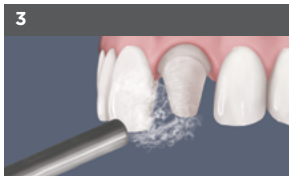
Apply Prime&Bond active™ adhesive to all cavity surfaces. Avoid pooling. No need for Self Cure Activator when Prime&Bond active Adhesive is used with Calibra Ceram Cement. Slightly agitate adhesive for 20 seconds.



## 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.

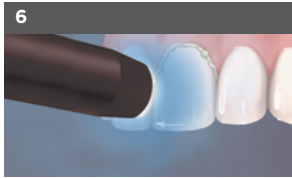


## 3 AIR DRY

Thoroughly dry with moderate air flow for at least 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  $\leq$  2.5 mm thick. See step 8.

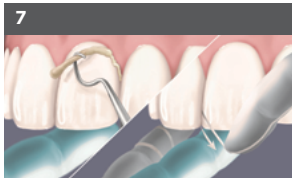
## Technique Guide Cont'd

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



### 6 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.



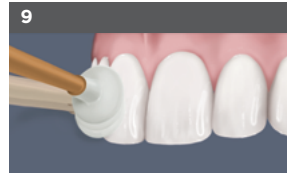
### 7 REMOVE EXCESS CEMENT

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



### 8 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.

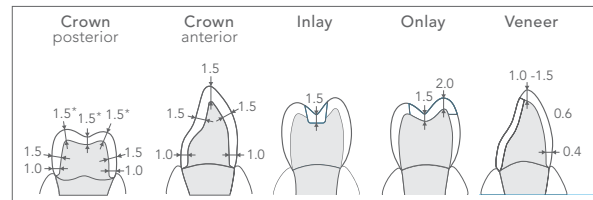


### 9 FINISH AND POLISH

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

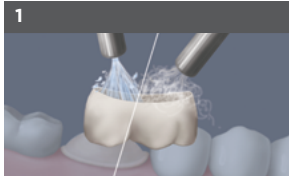
- Minimal Wall Thickness



- 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.

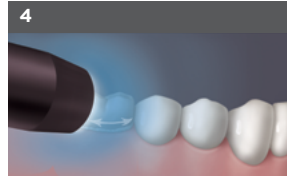
# Cementation Technique with Calibra® Universal Cement for CEREC Zirconia Blocks

CEREC® Zirconia  
Translucent Zirconium  
Oxide Block



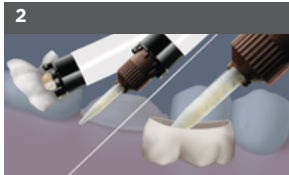
## 1 PRE-TREATMENT

Sandblast the internal surfaces with maximum 50µm alumina (Al<sub>2</sub>O<sub>3</sub>) at a pressure less than 2.5 bar. Do not touch the sandblasted surface if at all possible.



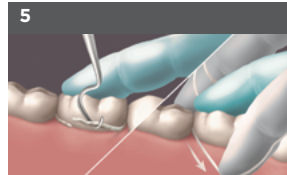
## 4 CLEAN UP EXCESS

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.



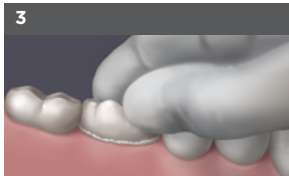
## 2 APPLY CALIBRA UNIVERSAL CEMENT

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.



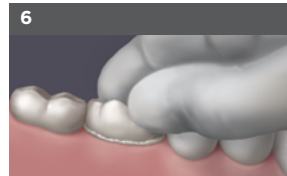
## 5 REMOVE EXCESS CEMENT

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



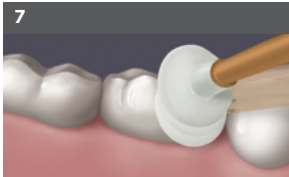
## 3 SEAT RESTORATION

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



## 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.

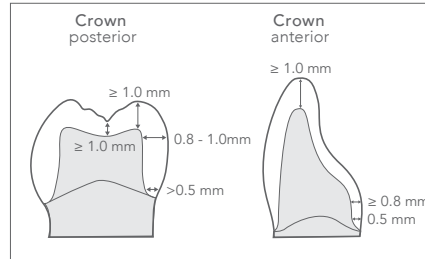


### FINISH AND POLISH

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



- 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.



Dentsply Sirona  
38 West Clarke Avenue  
Milford DE 19963  
800-532-2855  
[www.dentsplysirona.com](http://www.dentsplysirona.com)

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