



**BISCO**

**SCIENCE AND DENTISTRY. BONDED.**

## Techniques

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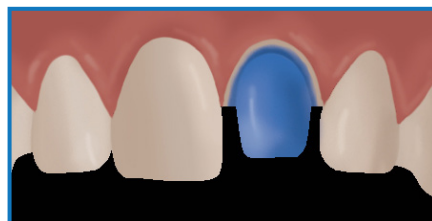
**En français 1.800.211.1200**

## Self-Etch Technique



No phosphoric acid applied to the tooth structure.

## Total-Etch Technique



Phosphoric acid (such as Uni-Etch or 37% Etch w/ BAC) applied to both enamel and dentin surface.

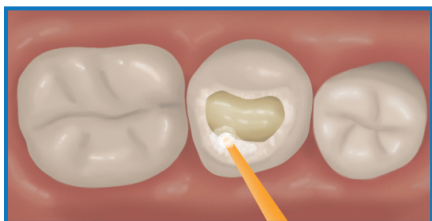
## Selective-Etch Technique



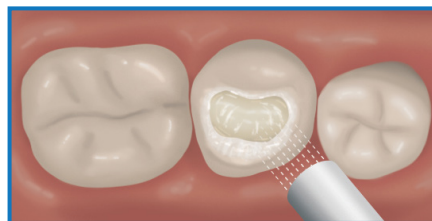
Phosphoric acid (such as Select HV® Etch) applied to the enamel surface only.

## Bonding Technique\*

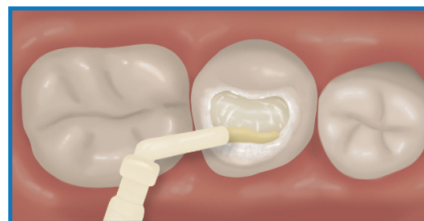
using All-Bond Universal



1. Apply two separate coats of All-Bond Universal®, scrubbing the preparation with a microbrush for 10-15 seconds per coat. Do not light cure between coats.



2. Evaporate solvent by thoroughly air-drying with an air syringe for at least 10 seconds; there should be no visible movement of the material. The surface should have a uniform glossy appearance; otherwise, repeat Step 1-2. Light cure for 10 seconds.



3. Continue with placement of the restorative material according to the manufacturer's instructions.



Learn more

\* Refer to instructions for complete details.

## Pulp Exposures (Direct Pulp Capping)\*

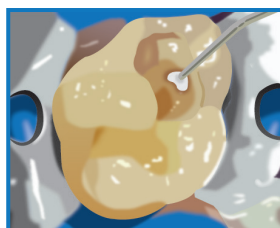
with TheraCal LC



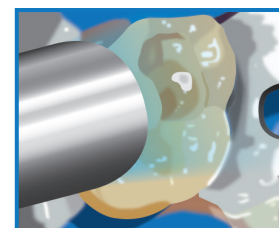
1. Under rubber dam isolation, complete cavity preparation.



2. Achieve hemostasis. Leave dentin visibly moist.



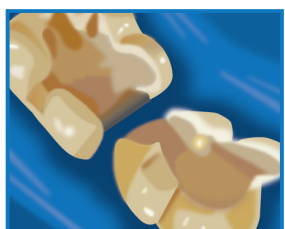
3. Apply TheraCal LC® directly to the exposed pulp. Layer is not to exceed 1 mm in depth. Cover all the exposed areas and extend TheraCal LC® at least 1mm onto sound dentin surrounding the exposure.



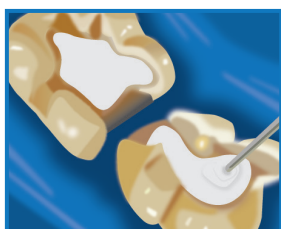
4. Light cure for 20 seconds. Place desired adhesive, base, and/or restoration following manufacturer's directions. Continue restoring tooth.

## Deep Preparations (Indirect Pulp Capping)\*

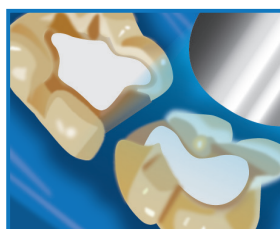
with TheraCal LC



1. Isolate the tooth and perform conventional cavity preparation. Remove all infected carious tooth structure. Leave dentin visibly moist.



2. Apply TheraCal LC® directly to the cavity floor of the preparation. Layer is not to exceed 1 mm in depth. Manipulate into a smooth surface covering all deep dentin areas.



3. Light cure for 20 seconds. Place desired adhesive, base, and/or restoration following manufacturer's directions. Continue restoring tooth.



Learn more



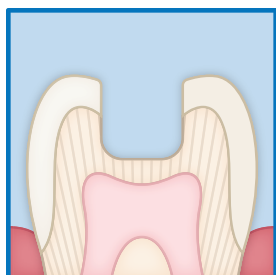
\* Refer to instructions for complete details.

## Sandwich Technique\*

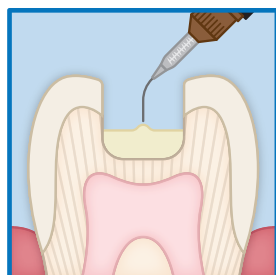
using TheraBase



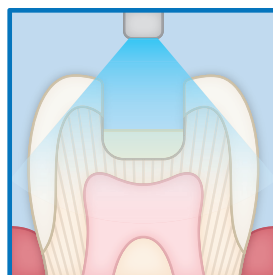
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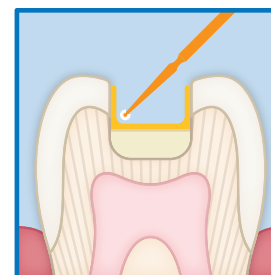
1. Prepare cavity. Clean the preparation with pumice and water. Rinse thoroughly and dry.



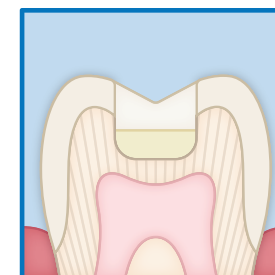
2. Apply TheraBase® to the dentin surfaces of the prepared cavity directly from the syringe.



3. Light cure for 20 seconds or allow to self-cure.



4. Proceed with bonding procedure, such as All-Bond Universal® following manufacturer's instructions.



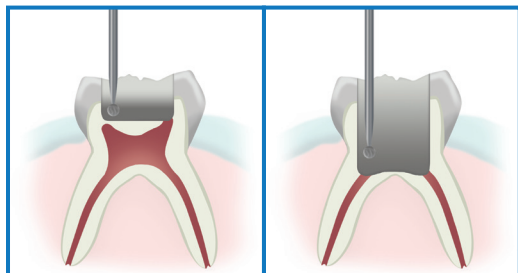
5. Restore with composite following manufacturer's instructions.

## Pulpotomy Treatment\*

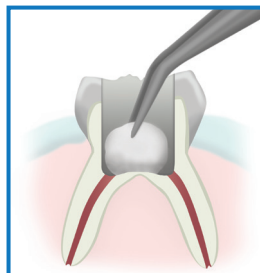
using TheraCal PT



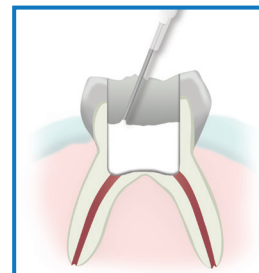
Learn more



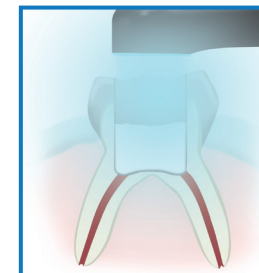
1. Perform pulpotomy treatment.



2. Achieve hemostasis.



3. Place TheraCal PT® directly in the pulp chamber, and ensure good adaptation to the cavity walls and margins.

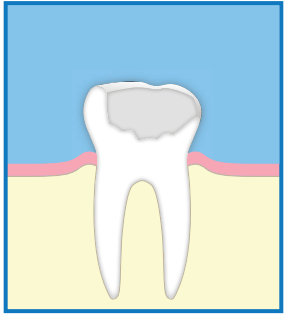


4. Light cure TheraCal PT® for 10 seconds. Place desired adhesive, base, and/or restoration following manufacturer's directions for restoring tooth.

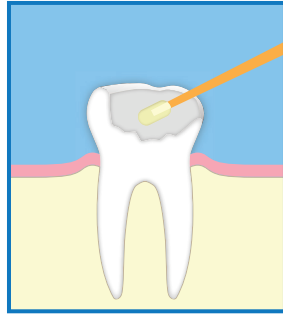
\* Refer to instructions for complete details.

## Core Build-Ups\*

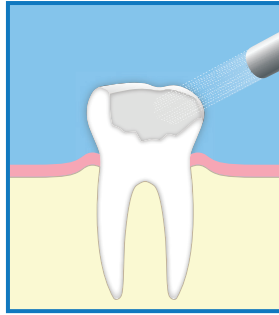
with Core-Flo DC or Core-Flo DC Lite



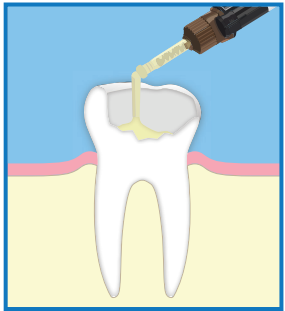
1. Isolate tooth and prepare accordingly. Rinse and dry.



2. Dispense 1-2 drops of Universal Primer A&B or All-Bond Universal into a clean well. Apply two separate coats of Universal Primer A&B or All-Bond Universal, scrubbing the preparation with a microbrush for 10-15 seconds per coat.



3. Evaporate excess solvent by thoroughly air-drying with an air syringe for at least 10 seconds; there should be no visible movement of the adhesive. The surface should have a uniform glossy appearance; otherwise, apply an additional coat of Universal Primer A&B or All-Bond Universal and air dry.



4. Place the end of the intra-oral tip directly onto the preparation, and express Core-Flo DC or Core-Flo DC Lite.



5. Light cure the Core-Flo DC or Core-Flo DC Lite for 40 seconds and continue with final preparation.



Learn more



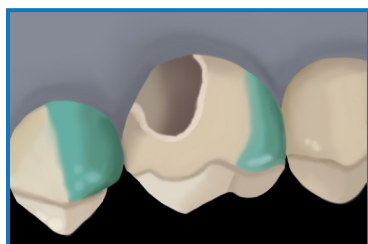
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\* Refer to instructions for complete details.

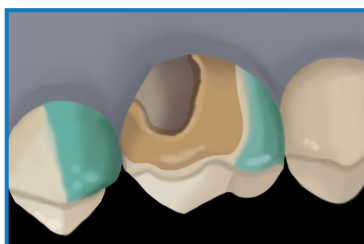


## Intraoral Repairs of Porcelain (PFM, or PFZr)\*

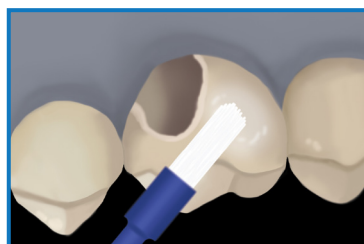
1. Isolate the area to be repaired. Remove the glaze and bevel (45 degrees) the porcelain around the area to be repaired. Sandblast or abrade with a coarse diamond bur. Rinse with water and air dry.



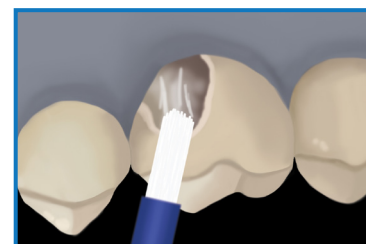
2. Place **Barrier Gel** on the gingival tissue and porcelain to protect areas where etching is not desired.



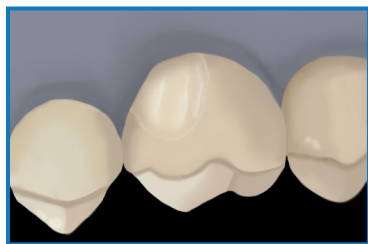
3. Apply **9.5% Porcelain Etchant** to the dry porcelain surface for 90 seconds. Suction the etchant with high volume evacuation, then rinse with water and air dry. The etched porcelain should appear dull and frosty.



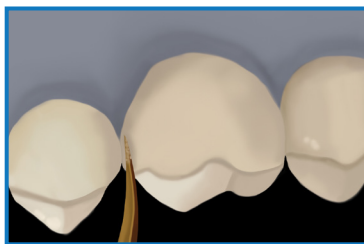
4. Apply 1 coat of silane (C) to the etched porcelain and allow to dwell for 30 seconds. Dry with (warm) air syringe.



5. Apply 1 coat of **Z-Prime Plus** to the exposed metal/zirconia/alumina and dry with an air syringe for 3-5 seconds.



6. If metal masking is required, use **Dual-Cured Opaquer Base** and **Catalyst**, one drop of each, onto a mixing pad and mix with a brush tip. Apply a thin coat of the mixture only to the metal surface. Allow to self cure, or light cure for 5 seconds.



7. Apply a thin layer of **Porcelain Bonding Resin** to the repair site. Apply a hybrid composite (**Aelite All-Purpose Body**) to replace fractured porcelain and light cure, finish/polish.



Learn more



Learn more



Learn more

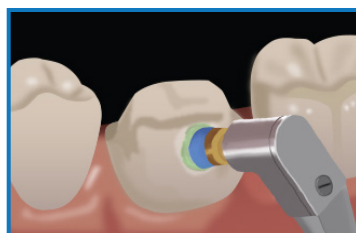
\* Refer to instructions for complete details.

## Conventional Cementation of Crowns (Retentive Preps)\*

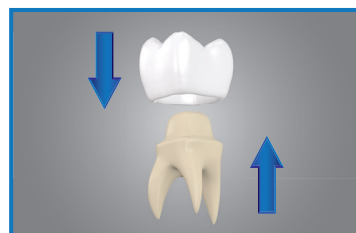
using TheraCem



1. Sandblast internal surface of restoration (unless restoration has previously been sandblasted).



2. Remove temporary restoration and clean prep with pumice and water slurry. Rinse thoroughly and dry.



3. Try-in (to check occlusion and fit). After try-in, thoroughly rinse the restoration with water spray and dry.



4. Outside of the mouth, cover all bonded surfaces of the restoration with a layer of ZirClean®. Allow 20 seconds for the cleaning action of ZirClean® to take affect, then thoroughly rinse with water spray and dry.



5. Dispense TheraCem® into the restoration. Seat the restoration with gentle passive pressure and remove any excess cement.

**PRO TIP:** To aid in the removal of excess cement, initially light-cure the margins for 2-3 seconds.



6. Light cure for 20-30 seconds or allow to self cure.



Learn more

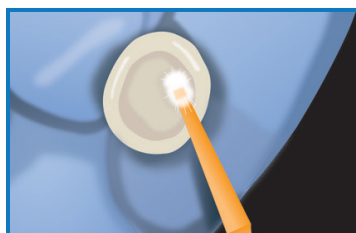


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\* Refer to instructions for complete details.

## Bonded Cementation of Inlay/Onlays, Bridges, Crowns (Short/Tapered Preps)\*

using Duo-Link Universal

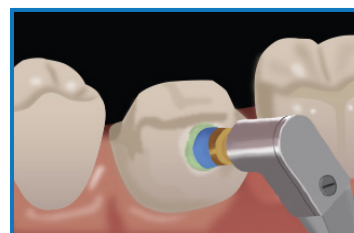


**1a.** Porcelain/Lithium Disilicate: Apply a thin coat of silane (**Porcelain Primer** or **Bis-Silane**) to the internal surface. Wait for 30 seconds, or dry with (warm) air.

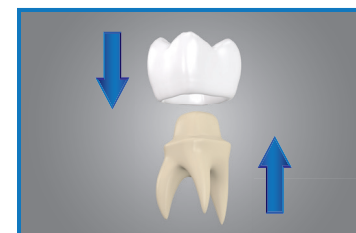
OR



**1b.** If restoration is metal/zirconia/indirect composite sandblast internal surface of restoration, unless restoration has previously been sandblasted.



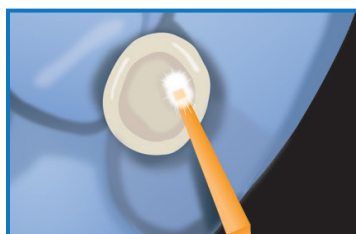
**2.** Remove temporary restoration and clean prep with pumice and water slurry. Rinse thoroughly and dry.



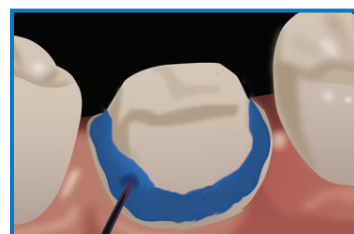
**3.** Try-in (to check occlusion and fit). After try-in, thoroughly rinse the restoration with water spray and dry.



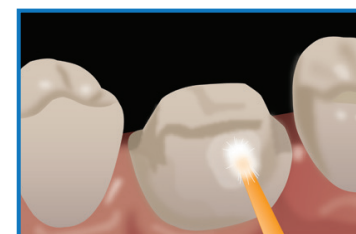
**4.** Outside of the mouth, Cover all bonded surfaces of the restoration with a layer of **ZirClean**®. Allow 20 seconds for the cleaning action of **ZirClean**® to take affect, then thoroughly rinse with water spray and dry.



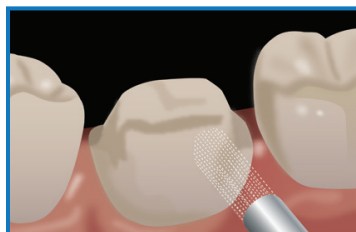
**5.** If restoration is metal/zirconia/indirect composite, apply one coat of **Z-Prime Plus** to the internal surface of the restoration and air dry for 3-5 seconds.



**6.** If prep includes enamel, selectively etch enamel with **Select HV**® Etch for 15 seconds, suction then rinse thoroughly.



**7.** Dispense **Universal Primer** and mix (or **All-Bond Universal**®) in a mixing well. Apply 2 separate coats, agitating each coat for 10-15 seconds.



**8.** Gently air dry until there is no visible movement of the adhesive. Then thoroughly air dry with greater air pressure. The surface should appear shiny, otherwise repeat step 7. Light cure for 10 seconds.\*\*



**9.** Using a dual-cured resin cement (**Duo-Link Universal**), fill the internal surface of the restoration and/or the prep with the cement. Seat with gentle, passive pressure and remove excess cement while holding restoration in place. Allow the cement to self-cure, or light-cure each surface of the tooth for 40 seconds.



Learn more

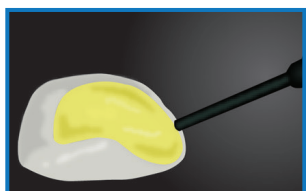
\* Refer to instructions for complete details.

\*\* Universal Primer does not require light cure.

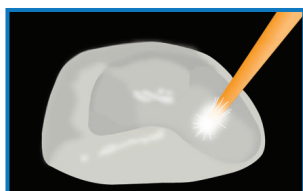


# Veneer Cementation\*

using Choice™ 2



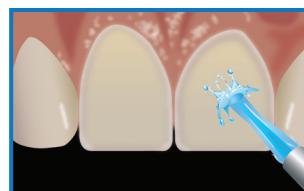
OR



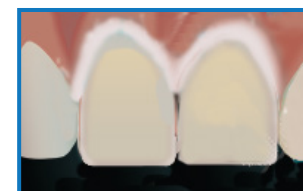
1. Prepare the internal surface of the restoration as instructed by the laboratory:

**a.** Porcelain/Lithium Disilicate:  
If needed, etch the veneer with hydrofluoric acid (4% Porcelain Etchant or 9.5% Porcelain Etchant) according to the manufacturer's instructions.

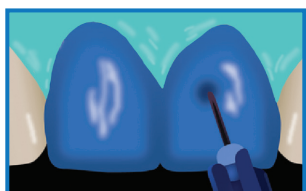
**b.** Apply a thin coat of silane (Porcelain Primer/Bis-Silane) to the internal surface. Wait for 30 seconds, or dry with (warm) air.



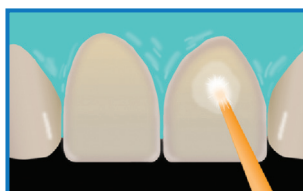
2. Remove the temporary restorations and clean the preparations (Cavity Cleanser and pumice slurry). Rinse thoroughly.



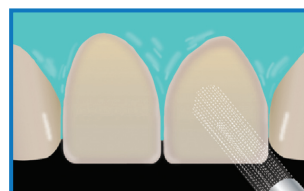
3. Try in the restorations using the corresponding shade of water-soluble try-in paste (Choice 2 Try-In Paste). Remove the veneers and either clean with etchant (Uni-Etch® w/BAC, 37% Etch w/BAC or Select HV® Etch) and rinse thoroughly, or ultrasonicate in water or alcohol for 2-3 minutes. Dry the restorations.



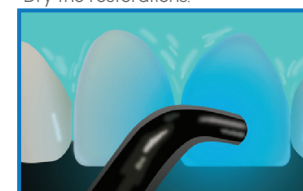
4. Isolate. Etch preparations (Uni-Etch® w/BAC, 37% Etch w/BAC or Select HV® Etch) for 15 seconds, rinse thoroughly.



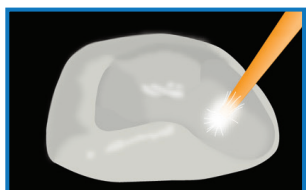
5. Dispense adhesive (All-Bond Universal®) in a mixing well. Apply 2 separate coats, agitating each coat for 10-15 seconds.



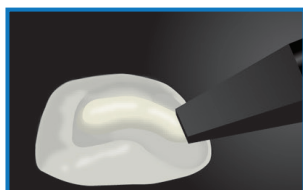
6. Gently air dry until there is no visible movement of the adhesive. Then thoroughly air dry with greater air pressure. The surface should appear shiny, otherwise apply additional coats.



7. Light cure for 10 seconds.



8. Apply a thin layer of HEMA-free resin (Porcelain Bonding Resin) to the internal surface of the veneer. Do NOT light cure.



9. Using a light-cured resin cement (Choice 2), fill the internal surface of the restoration with the cement.



10. Seat with gentle, passive pressure and light cure for 2-3 seconds to tack the veneer into place. Remove excess cement, then light cure each veneer for 40 seconds.



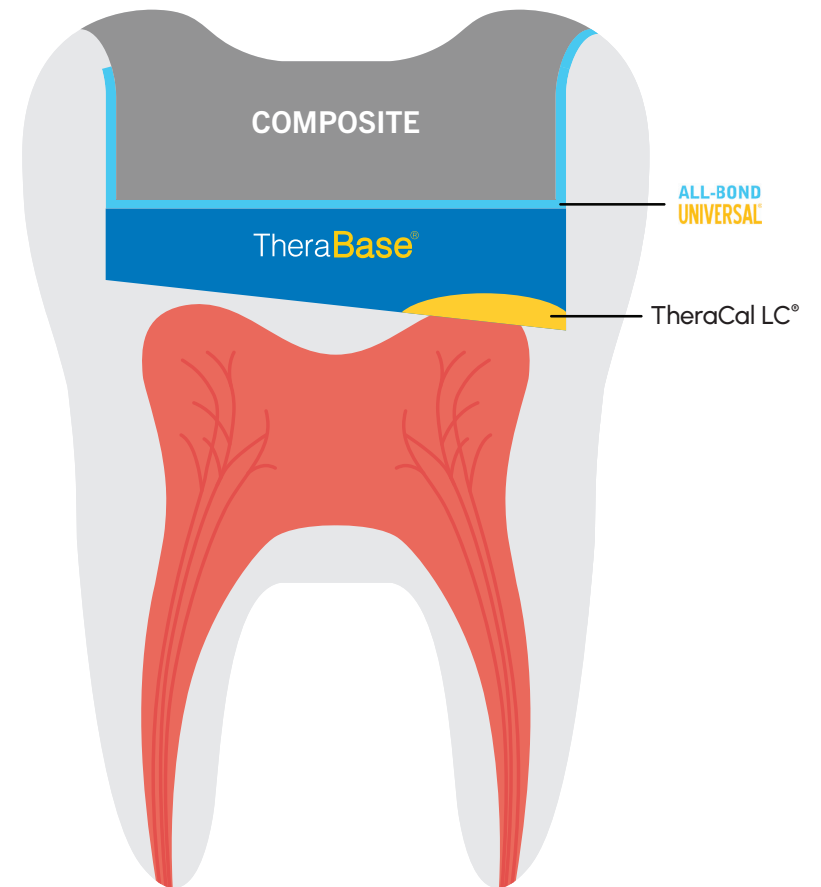
Learn more

\* Refer to instructions for complete details.

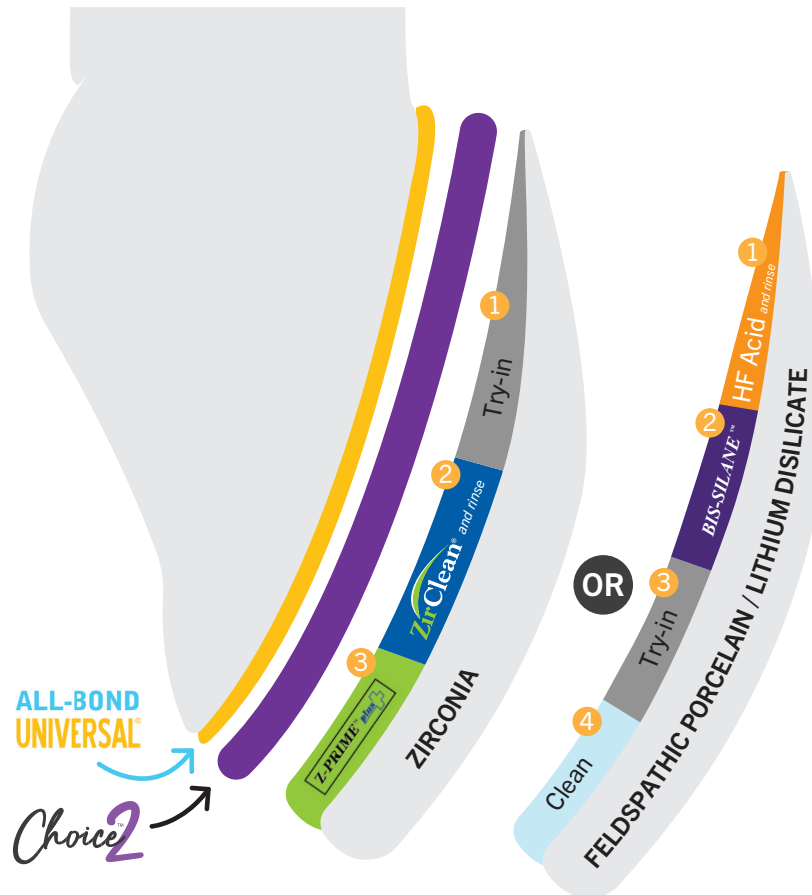
## Zirconia Bonding



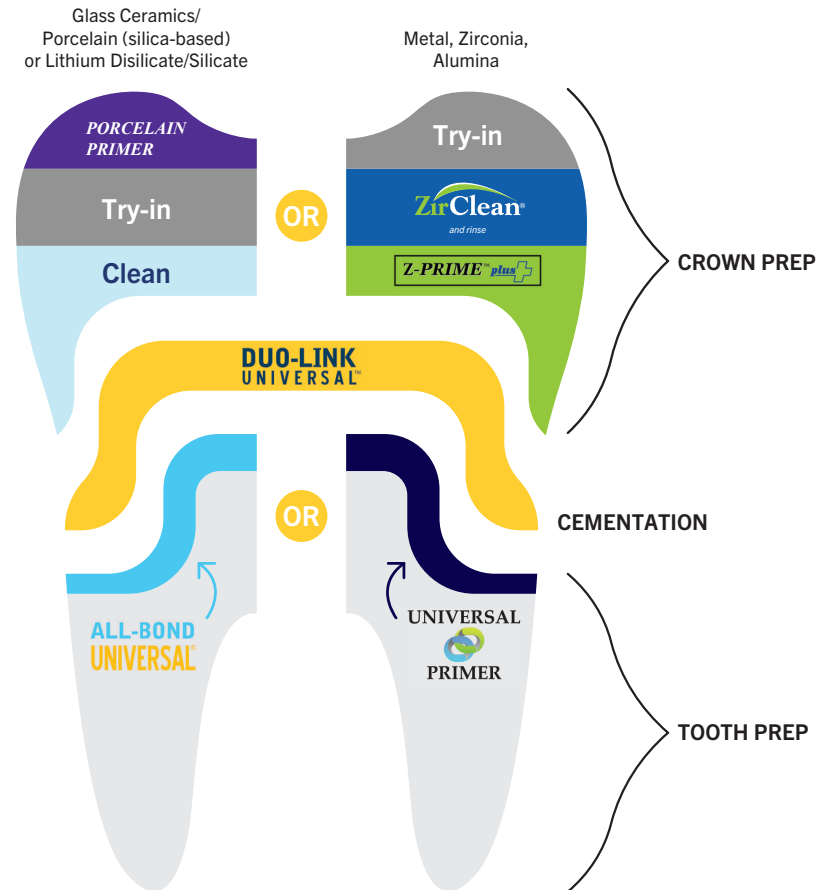
## Sandwich Technique



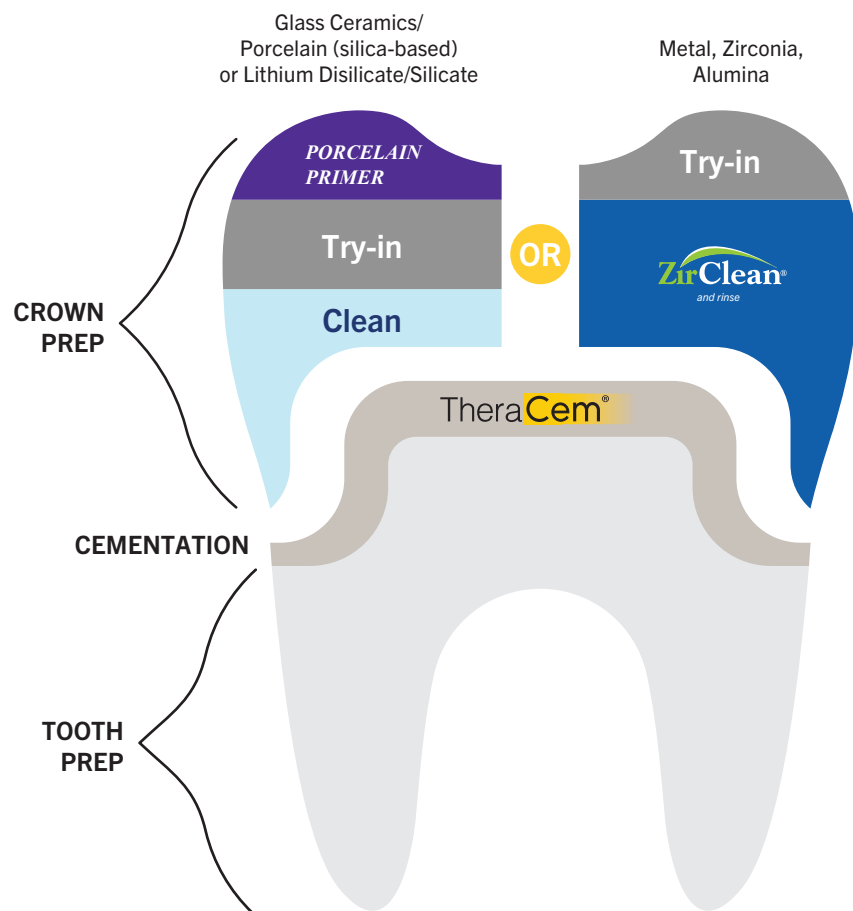
## Veneer Cementation



## Cementation With a Bonding Agent



## Cementation Without a Bonding Agent



## Post Cementation With Core Build-up

