

PRODUCT SPOTLIGHT



Science and Dentistry. Bonded.



www.bisco.com • 1-800-247-3368



Table of Contents

BISCO Timeline	
Celebrating 40 Years of BISCO	Page 3-4
Educational Resources	
eBooks	Page 5
Adhesives	
All-Bond Universal [®]	Page 6
Cements	
Duo-Link Universal™	Page 7
Etchants	
Select HV [®] Etch w/BAC, Uni-Etch [®] w/BAC, & Etch-37 [™] w/BAC	Page 8
TheraFamily	
TheraCal LC [®] TheraCal PT [®] TheraCem [®] TheraBase [™]	Page 10
Primers	
Z-Prime [™] Plus.	Page 13
Supportive Products	
ZirClean [®]	Page 14
Core Materials	
Core-Flo™ DC, & Core-Flo™ DC Lite	Page 15
Varnish	
FluoroCal™	Page 16
Techniques	
Self-Etch, Total-Etch, and Selective-Etch Bonding Pulp Exposures (Direct Pulp Capping) Deep Preparations (Indirect Pulp Capping) Sandwich Technique Pulpotomy Core Build-ups Intraoral Repairs of Porcelain (PFM or PFZr) Conventional Cementation of Crowns (Retentive Preps). Bonded Cementation of Inlays/Onlays, Bridges, Crowns (Short/Tapered Preps). Veneer Cementation.	Page 19 Page 19 Page 20 Page 20 Page 21 Page 21 Page 22 Page 23 Page 24 Page 25
Zirconia Bonding	Page 20

Visit us at www.bisco.com for a complete product catalog!



This year we celebrate BISCO's 40th anniversary where "adhesion is our passion," and we dedicate ourselves to understanding and improving the ability to bond restorations. Our goal is to make your life easier, while helping you perform your best dentistry! We place tremendous value on sharing our research and scientific knowledge to benefit you and your practice, and offering award-winning products that provide reliable solutions to your clinical needs.

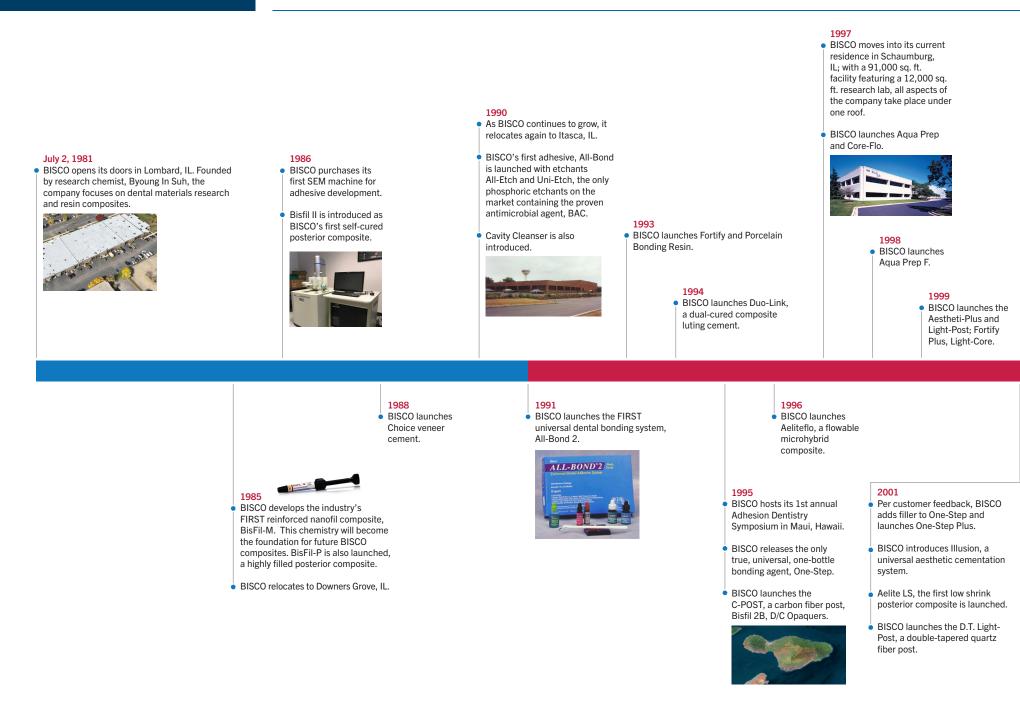
With BISCO, you are no longer alone. If you have a question about restorative protocols or are wondering which products to use (or maybe you are just looking for someone to talk to), give us a call. We're here to help!



BISCO HEADQUARTERS SCHAUMBURG, ILLINOIS

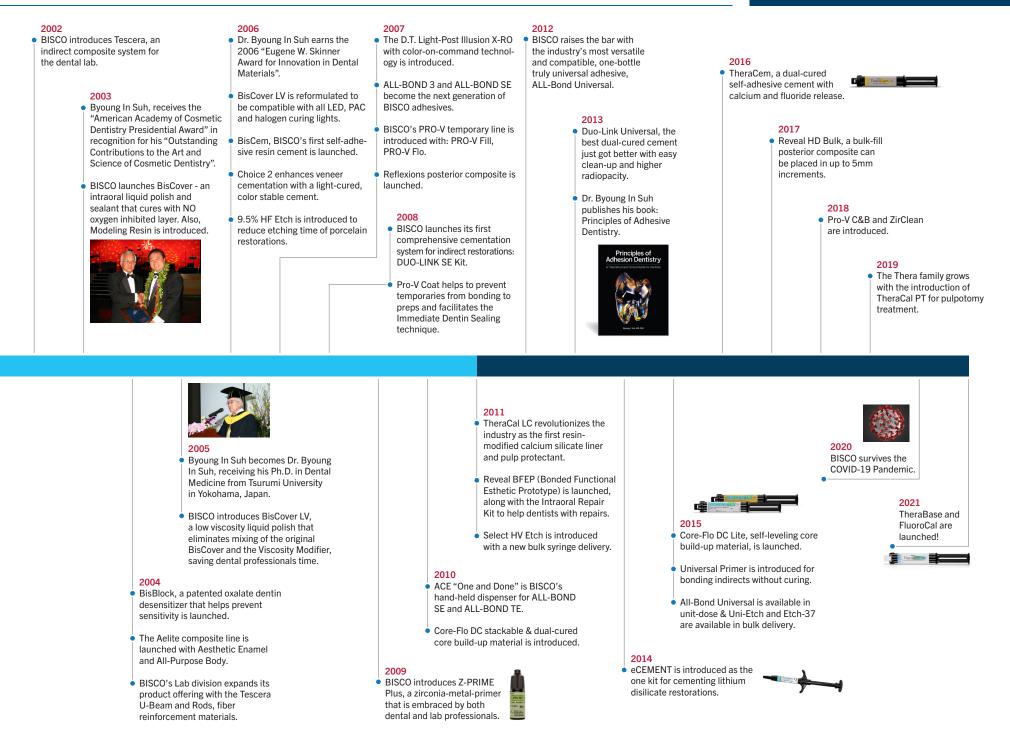


DR. BYOUNG SUH FOUNDER AND PRESIDENT OF BISCO



Celebrating 40 Years

40 Years of BISCO



Restorative Solutions eBook

Meet the Award-Winning TheraFamily



Understanding Cements eBook

A Guide From Prep to Post-Op



Universal Adhesives eBook

A Brief Clinical Overview



Celebrating 40 Years

From 1981 to 2021, BISCO has dedicated time, resources, and talent to improving restorative dentistry, with products proudly made in the U.S.





USE YOUR MOBILE DEVICE TO SCAN THE AR CODES AND LEARN MORE!

Truly Simple. Truly Universal.

All-Bond Universal[®]

Light-Cured Dental Adhesive

All-Bond Universal is the culmination of over 30 years of adhesive research at BISCO. All-Bond Universal is compatible with all light-, self-, and dual-cured resin composite and cement materials for all direct and indirect procedures.











Other adhesives may need more than one bottle for indirect restorations, but with All-Bond Universal, NO activator is required

Dentistry courtesy of Tyler Lasseigne, DDS, CDT



3. Apply Duo-Link Universal

Order Info: Bottle

1

All-Bond Universal Standard Kit All-Bond Universal (6ml)



Unit-Dose Packages

All-Bond Universal Unit-Dose (50pk) All-Bond Universal Unit-Dose (100pk) B-73050K B-73100K



MDP

MDP

Low Film Thickness Less than 10 microns



Total Universatility

Compatible with all light-, self- and dual-cured resin composite and cement materials for all direct and indirect procedures

LEARN MORE ABOUT ALL-BOND UNIVERSAL

Contains MDP for enhanced durability







Duo-Link Universal[™]

Resin Luting Cement

Duo-Link Universal is specially formulated for cementation of ALL* indirect restorations. The adhesive resin cement is intended for use with adhesives designed for compatibility with all dental materials, including all BISCO adhesives.



Easy Clean-Up Specially formulated to allow for quick and easy clean-up



Radiopaque Visible on radiograph to easily distinguish from caries



High Degree of Conversion Ensures a higher physical strength



CAD/CAM Restorations

Easy to Use

Ideal for all chairside and lab-fabricated restorations

Auto-mix, dual-syringe provides a

consistent mix for immediate delivery





Universal For All Cementation Procedures*

Crowns, bridges (fixed prosthesis), inlays, onlays, and posts/dowels, fabricated from metal, composite, porcelain, ceramic, zirconia, alumina, CAD/CAM restorations, etc.





1. Duo-Link Universal dispensed in the crown



System Kit with Universal Primer

Order Info: System Kit with All-Bond Universal

Universal Dual-Syringe (8g)

Milky White Dual-Syringe (8g)

* It is recommended to use BISCO's CHOICE[™] 2 for veneer cementation.

2. All-Bond Universal applied,



B-19620K

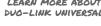
B-19710K

A-19030P

A-197MWP

Excess cement removed

4. Final restoration





LEARN MORE ABOUT DUG-LINK UNIVERSAL











BAC containing Etchants.

Etchants



Select HV[®] Etch w/BAC Uni-Etch[®] w/BAC Etch-37[™] w/BAC

Phosphoric Acid Etchants with Benzalkonium Chloride (BAC)

Select HV Etch is a 35% high-viscosity phosphoric acid etchant with BAC. It is specifically formulated for pinpoint placement to etch enamel when using an adhesive in selective-etch mode.

Uni-Etch w/BAC and Etch-37 w/BAC are 32% and 37% semi-gel phosphoric acid etchants with BAC. They are specifically formulated to be easily applied to larger surface areas and rinsed cleanly with no residue.



Blue Color Easy visualization and contrast



Contains BAC

In-vitro research shows benzalkonium chloride is effective against Streptococcus mutans^{1,2}

Easy Clean-Up Rinses away cle no residue to ir

Rinses away cleanly and quickly leaving no residue to interfere with bonding

Dentistry courtesy of Michael Morgan, DDS



LEARN MORE ABOUT ETCHANTS



Order Info: Select HV Etch w/BAC (35%) 30ml Bulk Syringe Kit Bulk Syringe Refill (30ml)

4 Syringe Package (5g ea.) Uni-Etch w/BAC (32%)

Bulk Bottle (30g) Bulk Syringe Refill (30ml) 4 Syringe Package (5g ea.)
 Etch-37 w/BAC (37%)

 E-59200K
 Bulk Bottle (30g)

 E-59160P
 Bulk Syringe Refill (30ml)

 E-59110P
 4 Syringe Package (5g ea.)

E-5637EB

E-56621P

E-5502EBM

E-5638EB E-56741P E-5503EBM

1. M.Sc.Dt. Emre ÖZEL, Dr. Haktan YURDAGÜVEN, Yrd.Doç.Dr. Esra CAN SAY, Prof.Dr. Sesin KOCAGÖZ, Evaluation of the Antibacterial Activity of Disinfectant Solutions with Phosphoric Acids Against Streptococcus Mutans. Journal of Hacettepe Faculty of Dentistry, Volume: 29, Issue 4, Page: 8-14, 2005

2. M. TURKUN1, Z. ERGUCU, L.S. TURKUN, E.U. CELIK, and M. ATES, Is Phosphoric Acid Sufficiently Antibacterial?, J Dent Res 85 (Spec Iss B):abstract number 1605, 2006 (www.dentalresearch.org).

















TheraCal LC® Resin-Modified Calcium Silicate Pulp Protectant/Liner

TheraCal LC is a light-cured resin modified calcium silicate ideal for direct and indirect pulp capping and as a protective liner.



Calcium Release*

Stimulates hydroxyapatite formation^{1,2} and secondary dentin bridge formation^{2,3}



Moisture Tolerant Can be placed under restorative materials and cements



Insulates Pulp Forms a protect barrier that insulates the pulp4,5

Dentistry courtesy of Ross Nash, DDS





present on an asymptomatic mandibular first premolar without exposing the pulp

2. Incomplete excavation of caries leaving affected dentin on moist dentin



4. Place 1mm of Theracal LC and light cure for 20 seconds

pН

Radiopaque

from caries

Alkaline pH

Visible on radiograph to easily distinguish

Alkaline pH promotes pulp vitality³

Order Info: TheraCal LC 4-Syringe Pack TheraCal LC Syringe (1g)

H-33014P H-3301P

LEARN MORE ABOUT THERACAL LC



OR VISIT THERAFAMILY.COM

* BISCO has, on file, the calcium release data for TheraCal LC

- 1. Gandolfi MG, Siboni F, Prati C. Chemical-physical properties of TheraCal, a novel light-curable MTA-like material for pulp capping. International Endodontic Journal. 2012 Jun;45(6):571-9.
- 2. ADA definitions for direct and indirect pulp capping at: www.ada.org/en/publications/cdt/glossary-of-dental-clinical-and-administrative-ter
- 3. T. Okabe, M. Sakamoto, H. Takeuchi, K. Matsushima. Effects of pH on Mineralization Ability of Human Dental Pulp Cells. Journal of Endodontics. Volume 32, Number 3, March 2006.
 - 4. Sangwan P; Sangwan A; Duhan J; Rohilla A. Tertiary dentinogenesis with calcium hydroxide: a review of proposed mechanisms. Int Endod J. 2013; 46(1):3-19 5. Selcuk SAVAS, Murat S. BOTSALI, Ebru KUCUKYILMAZ, Tugrul SARI. Evaluation of temperature changes in the pulp chamber during polymerization of light-cured pulp-capping materials
 - by using a VALO LED light curing unit at different curing distances. Dent Mater J. 2014;33(6):764-9.

TheraFamily



TheraCal PT[®]

Dual-Cured Resin-Modified Calcium Silicate Pulpotomy Treatment

TheraCal PT is a biocompatible, dual-cured, resin-modified calcium silicate designed for pulpotomy treatment. TheraCal PT maintains tooth vitality by performing as a barrier and protectant of the dental pulpal complex.



Calcium Release* Unique hydrophilic matrix facilitates calcium release



Easy Syringe Application Manual mixing is not required, the dispensing tip creates a uniform mix allowing for direct placement





One-layer confidence

Dentistry courtesy of Juan Carlos Hernández Cabanillas, DDS



1. Perform pulpotomy treatment and achieve hemostasis



in the pulp chamber, and ensure good adaptation to for 10 seconds, place desired adhesive, base, and/or the cavity walls and margins restoration following manufacturer's directions

Order Info: Theracal PT Dual-Syringe (4g) H-34110P

* Data on file. BISCO, Inc.

1. T. Okabe, M. Sakamoto, H. Takeuchi, K. Matsushima, Effects of pH on Mineralization Ability

of Human Dental Pulp Cells. Journal of Endodontics. Volume 32, Number 3, March 2006.



Visible on radiograph to easily distinguish from caries



Alkaline pH* Alkaline pH promotes pulp vitality¹



Moisture Tolerant* Low water solubility

> LEARN MORE ABOUT THERACAL PT



OR VISIT THERAFAMILY.COM









TheraCem[®] Self-Adhesive Resin Cement

TheraCem is a dual-cured, calcium- and fluoride-releasing, self-adhesive resin cement indicated for luting crowns, bridges, inlays, onlays and posts (prefabricated metal/non-metal/fiber posts).



Calcium and Fluoride Release TheraCem offers continuous calcium and fluoride release¹



`Fl

Alkaline pH TheraCem transitions from acidic to alkaline pH in minutes²



High Degree of Conversion A high degree of conversion ensures a higher physical strength



MDP

Radiopaque

from caries

Easy Clean-Up

and easy clean-up

MDP

TheraCem contains MDP offering a strong bond to zirconia, metal, and alumina substrates with no priming or etching required

Visible on radiograph to easily distinguish

Specially formulated to allow for quick

Dentistry courtesy of Joseph Kim DDS, JD, FAGD, FICOI







3. Remove excess cement



LEARN MORE ABOUT THERACEM



OR VISIT THERAFAMILY.COM

Order Info: Natural Dual-Syringe (8g)

D-46311P

1. Gleave CM, Chen L, Suh BI. Calcium & fluoride recharge of resin cements. Dent Mater. 2016 (32S):e26.

2. New Self-adhesive Resin Cement With Alkaline pH. Chen L, Gleave C, Suh B, J Dent Res96(A):#286, 2017. Data on file. BISCO, Inc.







TheraFamily

NEW! **TheraBase**[™] Self-Adhesive Calcium Releasing Base/Liner

TheraBase is a dual-cure, calcium and fluoride-releasing, self-adhesive base/liner. It is the ideal dual-cured material that will polymerize even in deep restorations where light cannot reach.



e.

hera

Calcium and Fluoride Release TheraBase offers continuous calcium and fluoride release¹



High Flexual Strength Stronger and more fracture resistant



High Compressive Strength Absorbs shock and stress from occlusal forces without fracturing



Radiopaque Visible on radiograph to easily distinguish from caries

pH

Alkaline pH

Generates an alkaline pH (pH=11*) in minutes, which promotes pulp vitality²



High Degree of Conversion Ensures enhanced physical properties

Dentistry courtesy of Dr. Rual Euan, DDS



5. All-Bond Universal was applied following manufacturer's instructions.







LEARN MORE ABOUT THERABASE

OR VISIT THERAFAMILY.COM

1. After cavity preparation, all water was removed using a stream of air, leaving



to the dentin surface of the prepared cavity directly from the surface visibly moist. TheraCal LC was applied on the small pulp exposure and light-cured for 20 seconds. the dispensing syringe.

3. TheraBase was light cured for 20 seconds. If desired, TheraBase can be allowed to self-cure for 4 minutes.

4. A selective-etch bonding technique was used to condition the surface of the preparation. Any bonding technique can be applied

Order Info: TheraBase Single Syringe Pack

H-35001P

* Data on file. BISCO, Inc.

- 1. Gleave CM, Chen L, Suh BI. Calcium & fluoride recharge of resin cements. Dent Mater. 2016 (32S):e26.
- 2. T. Okabe, M. Sakamoto, H. Takeuchi, K. Matsushima. Effects of pH on Mineralization Ability of Human Dental Pulp Cells.
 - Journal of Endodontics. Volume 32, Number 3, March 2006.



filled with a light-cure composite material following manufacturer's instructions





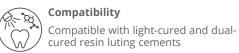
Z-Prime[™] Plus

Zirconia - Alumina - Metal Primer

Z-Prime Plus is a one-bottle primer used to enhance adhesion between indirect restorative materials and composite resin cements.



High Bond Strength To zirconia, alumina, and metal restorations





Convenient single bottle delivery offers ease of dispensing



B-6002P B-6001P

* Data on file. BISCO, Inc.





Enhances Bond Strength

Significantly enhances bond strengths of other resin cements*

Can be used with a variety of different



MDP

Versatile

substrates

Specially formulated with MDP to bond to zirconia, alumina, and metal

> LEARN MORE ABOUT Z-PRIME PLUS

















ZirClean[®] Restoration Cleaner

ZirClean is a cleaning agent designed for the non-abrasive cleaning of the bonding surfaces of zirconia, ceramic and metal restorations, after intraoral try-in.

B-7351P



eaner

ſ 1 Easy to Use Delivery system offers improved ease-of-use and easy placement



Easy Clean-up Specially formulated to allow for quick and easy clean-up



Reliable Results

strengths after try-in*

Contaminant Remover



Helps achieve reliable adhesive cementation results*

Contaminants such as saliva can be removed to help achieve better bond

Order Info: 1 Syringe ZirClean (5g)



LEARN MORE ABOUT ZIRCLEAN







Core Flo[™] DC & Core Flo[™] DC Lite

Dual-Cured Core Build-Up Materials

Core-Flo DC and Core Flo DC Lite are dual-cured, core products that are ideal for core build-ups, post cementation and as a dentin replacement material.



High Compressive Strength Absorbs shock and stress from occlusal forces without fracturing



Radiopaque Visible on radiograph to easily distinguish from caries



Stackable (Core-Flo DC) Optimal handling when building up core

Dentistry courtesy of Ross Nash, DDS, FAACD





use of Universal Primer"



2. Core-Flo DC applied after

Order Info: Core-Flo DC Lite

System Kit with Universal Primer Natural/A1 Dual-Syringe (8g) Opaque White Dual-Syringe (8g)

Core-Flo DC Natural/A1 Dual-Syringe (8g) Opaque White Dual-Syringe (8g) AB-17410K A-17801P A-17803P

A-23011P

A-23012P

Accessories Dispenser Mixing and Root Canal Tips Intraoral Mixing Tips

High Flexual Strength

Allows for easy preparation

Self-Leveling (Core-Flo DC Lite)

LEARN MORE ABOUT

CORE-FLO DC + CORE-FLO DC LITE

Allows for excellent adaption

resulting in gap-free margins

Cuts Like Dentin

Stronger and more fracture resistant

 \approx

L-22020P X-81267P X-81257P



N^{EW!} FluoroCal[™]

5% Sodium Fluoride Varnish with Tri-Calcium Phosphate

FluoroCal is a calcium and fluoride releasing, 5% sodium fluoride varnish that contains TriCalcium Phosphate. FluoroCal provides immediate sensitivity relief to hypersensitive teeth by penetrating and sealing exposed dentin tubules. It is available in a refreshing spearmint flavor that is sweetened with xylitol.



© ⊥ (0.4 ml) == ∞

FluoroCal^T

(0.4 ml) (active)

FluoroCal

(0.4 ml) ® ≙

FluoroCall

② △ (0.4 ml) <u>meoner</u>

FluoroCal

(0.4 ml) acou

FluoroCal

(0.4 ml) (nong spendarter

FluoroCal[®]

Calcium and Fluoride Release* Delivers sustained and targeted release of fluoride and calcium over 24 hours¹



Sweetened with Xylitol Xylitol acts as a sweetener to help patient compliance



Immediate Relief

Penetrates and seals dentin tubules, providing immediate sensitivity relief



Fluoride Uptake

When tested, FluoroCal demonstrated significantly higher enamel fluoride uptake than other leading fluoride varnishes²



Contains TriCalcium Phosphate (TCP)

Studies have shown that when combined, fluoride and TCP provide greater protection and acid-resistance³

Order Info: FluoroCal 50ct. Unit Dose

B-30501K

1. As tested in deionized water.

2. BISCO has, on file, the fluoride uptake data for FluoroCal

3. Li X. The remineralisation of enamel: a review of the literature. J Dent. 2014;42:S12–S20. doi: 10.1016/S0300-5712(14)50003-6.





TECHNIQUES

Self-Etch, Total-Etch, and Selective-Etch Bonding	Page 18
Pulp Exposures (Direct Pulp Capping)	Page 19
Deep Preparations (Indirect Pulp Capping)	Page 19
Sandwich Technique	Page 20
Pulpotomy	Page 20
Core Build-ups	Page 21
Intraoral Repairs of Porcelain (PFM or PFZr)	Page 22
Conventional Cementation of Crowns (Retentive Preps).	Page 23
Bonded Cementation of Inlays/Onlays, Bridges, Crowns (Short/Tapered Preps)	Page 24
Veneer Cementation.	Page 25
Zirconia Bonding	Page 26



Self-Etch Technique



No phosphoric acid applied to the tooth structure.

Total-Etch Technique



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

Selective-Etch Technique



Phosphoric acid (such as Select HV w/ BAC 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.

* 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.

-IneraCal 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.



Sandwich Technique*

using TheraBase



1. Prepare cavity. Remove all surface water using a strong stream of air on the preparation for 3 to 5 seconds. Do not desiccate.



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



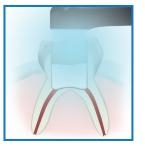
1. Perform pulpotomy treatment.



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



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



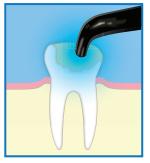
2. Dispense 1-2 drops of Universal Primer A & B into a clean well. Apply two separate coats of Universal Primer, scrubbing the preparation with a microbrush for 10-15 seconds per coat.



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 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.

* Refer to instructions for complete details.

TO LEARN MORE ABOUT UNIVERSAL PRIMER A + B VISIT WWW.BISCO.COM

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 (**Porcelain Primer**) 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.



8. (Optional): Place Bis-Cover[™] LV to seal and glaze the composite.

LEARN MORE ABOUT THE INTRAORAL REPAIR KIT



* 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. 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.

* 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**) to the internal surface. Wait for 30 seconds, or dry with (warm) air.



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. 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 w/BAC** 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.

* Refer to instructions for complete details. ** Universal Primer does not require light cure.



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.

Veneer Cementation*

using Choice[™] 2



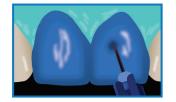
1. Prepare the internal surface of the restoration as instructed by the laboratory:

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) 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.



4. Isolate. Etch preparations (Uni-Etch w/BAC or Select HV Etch w/BAC) 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.



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



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.

* Refer to instructions for complete details.



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.

Recommended Clinical Procedure for Zirconia Bonding







BISCO, Inc. 1100 W. Irving Park Rd. Schaumburg, IL 60193, USA 1-800-247-3368 www.bisco.com

Rx Only

Visit us at www.bisco.com for a complete product catalog!

MC-55161CA