BISCO's TheraFamily of materials are safe, durable, predictable and easy to use, making them must-adds to your practice.

JOIN THE FAMILY
These calcium-releasing materials offer a variety of benefits for your patients and your practice.

**OVERCOMING CHALLENGES**

**TheraFamily** materials are safe, predictable, durable, and easy to use, enabling dentists to efficiently provide patients with top-notch care.

“I’ve never used a BISCO product that I couldn’t recommend to other doctors.”

—Dr. Mark Malterud, DDS, MAGD

**THE HYDROPHILIC MATRIX**

Unlike other resin matrices, BISCO’s Thera technology allows for ion exchange as water comes into the matrix, reacts, and releases calcium hydroxide ions. The alkaline pH environment is quickly created, promoting apatite formation.

**MEET THE FAMILY**

**TheraCem**

**What it is:** A self-etching, dual-cured, self-adhesive resin cement formulated for luting crowns, bridges, inlays, and onlays, as well as prefabricated metal and nonmetal fiber posts and cast posts. When using this fluoride- and calcium-releasing cement, there’s no need to etch, prime, or bond prepared surfaces.

**The benefits:** The easy-to-use cement can be placed quickly, producing a strong bond for indirect restorations. Its high degree of conversion offers increased strength, while its high radioopacity allows for easy identification and differentiation from recurrent decay and other restorative materials on radiographs. Patients also benefit from continuous calcium and fluoride release.1

**How it works:** The durable cement contains the adhesion promoting monomer MDP, which enhances the bond strength to zirconia, metal, and tooth structure without an additional adhesive or primer.

**What makes it unique:** TheraCem is the first BISCO cement to incorporate Thera technology. It’s also the only self-adhesive resin cement that contains MDP and releases calcium and fluoride.

**The challenges it helps overcome:** Unlike other resin cements, TheraCem is easy to handle and can be cemented in a few simple steps, streamlining procedures. Its radioopacity helps show residual cement on implant crowns or abutments for easy cleanup. The self-mixing tip also makes application seamless, providing a consistent mix for immediate delivery.

**What clinicians are saying:** “TheraCem is my go-to for cementation, especially for any zirconium product. It has outstanding handling properties, and the physical properties are unmatched by any other product. It is initially acidic, creating adhesion to the tooth, and then becomes alkaline with calcium release.”

—Dr. Mark Cannon, DMD, MAGD

**TheraCal LC**

**What it is:** A light-cured RMCS flowable pulpal protectant material for direct and indirect pulp capping. It also can be used as a protective liner under various materials, including composites, amalgam, and cements.

**The benefits:** The easy-to-use material features excellent handling properties, stays where it’s placed, and preserves tooth structure. TheraCal LC’s alkaline pH promotes healing.2 Its calcium release stimulates hydroxyapatite and secondary dentin bridge formation.3-5 And because it’s virtually insoluble, it won’t wash out over time.

**How it works:** With TheraCal LC, direct pulping can be completed in four steps, and indirect capping in deep preparation and liner preparation in large preparations take three. The delivery system features a thick needle that makes direct placement into preparations easy.

**What makes it unique:** The first in the new RMCS class, its formulation allows for command set with light curing, and

**THE SANDWICH TECHNIQUE**

This technique helps to further streamline the restorative process and improve clinical outcomes. How? TheraCal LC is first used for pulp capping and as a liner when treating exposed pulp. Then, TheraBase can be placed for maximum pulp protection and calcium release.
TheraCal PT

What it is: A biocompatible, dual-cured, RMCS for pulpotomies, placed after the coronal pulp is partially or fully removed. It adheres extremely well to moist dentin and zirconia crown that requires a complete seal for pulpal therapy/capping material.

How it works: The material treated exposed dentin and creates a protective barrier around the pulpal complex to help maintain tooth vitality. TheraCal PT is delivered directly into the pulp chamber without any mixing required, has a working time of 45 seconds and a setting time of 5 minutes, and the dual-cured set allows for immediate placement.

How it works: The material chemically bonds to tooth structure, releasing and recharging calcium and fluoride ions. The calcium release generates an alkaline pH to promote pulp vitality. It polymerizes even in deep restorations light can’t reach. Once dispensed, it can self-cure or be light cured for 20 seconds before the final restoration is finished. It’s delivered via a dual-barrel syringe with automatic cannula tips that create a consistent mix for easy placement, exceptional handling and minimal waste. There’s no mixing required, and it can be placed exactly where you want it to go.

What makes it unique: It’s stronger and more durable than other base materials. Its flexural strength gives it high resistance to fracture while its compressive strength helps it withstand shock and stress from occlusal force. The MDP monomer makes it self-adhesive, eliminating the need for bonding agents.

The challenges it helps overcome: TheraCal LT is ideal for deep cavity preparations. The challenges it helps overcome: It requires fewer steps than other materials and is easy to place, adapting to the pulpal floor with minimal manipulation. Its command set makes it immediately restorable and compatible with restorative materials and cements.

What clinicians are saying: “TheraCal PT is ideal to use in any pediatric patient, but especially useful in situations in which we must work quickly. The ability to command set with a light cure allows for the practitioner to continue with restoration immediately after placement. Anything that is faster and easier is valuable when working with young patients.”

-Dr. Carlo Cohn

PRO TIP

Dr. Carlo Cohn uses TheraCal PT in his office and has some advice on proper placement:

Place the tip of the syringe at the very base of the pulp chamber and slowly fill to the desired level, while leveling the tip of the syringe within the material at the time. Why? This ensues voidless pulp chamber filling.

Dr. Cohn uses the material for all primary dentition pulpotomies and finds it especially useful when restoring with a zirconia crown that requires a complete seal for pulp therapy or composite resin that requires an immediate set material.

She uses TheraCal PT just about every day, and also relies on TheraBase as an indirect pulp therapy/capping material.

“A dual-cured, calcium- and fluoride-releasing, self-adhesive base/liner that creates a firm foundation and fully sealed margins under any restoration. Benefits: With a high flexural and compressive strength, the durable material provides an excellent foundation for restorations. It’s also radiopaque, resulting in quick, effective diagnosis. Like the rest of the TheraFamily, the liner generates an alkaline pH, is dual cure, hydrophilic and provides calcium and fluoride release. How it works: The material chemically bonds to tooth structure, releasing and recharging calcium and fluoride ions. The calcium release generates an alkaline pH to promote pulp vitality. It polymerizes even in deep restorations light can’t reach. Once dispensed, it can self-cure or be light cured for 20 seconds before the final restoration is finished. It’s delivered via a dual-barrel syringe with automatic cannula tips that create a consistent mix for easy placement, exceptional handling and minimal waste. There’s no mixing required, and it can be placed exactly where you want it to go.

What makes it unique: It’s stronger and more durable than other base materials. Its flexural strength gives it high resistance to fracture while its compressive strength helps it withstand shock and stress from occlusal force. The MDP monomer makes it self-adhesive, eliminating the need for bonding agents.

The challenges it helps overcome: TheraCal LT is ideal for deep cavity preparations.

What clinicians are saying: “TheraBase is so easy to place! It adheres extremely well to moist dentin and has similar properties to TheraCem. It is the easiest base to place in dentistry. In many practices, it will replace glass ionomer.”

-Dr. Mark Cannon

“This was incredibly easy to mix, and it was simple to accurately place the material exactly where I wanted it to go. Besides the fluoride release, the concomitant release of calcium makes me feel more confident that I am doing the best for my patients. I will use it under any deep or questionable restorations. It definitely fills a void in our armamentarium.”

-Dr. Francis Jacobyansky

A Brand You Can Trust

ThERA materials are backed by research, Dr. Malterud said, and come from a leader in the new RMCS field.

“To practice modern dentistry, the dentist requires modern dental materials, and there are no more advanced dental materials than what you will find from the acknowledged leader in adhesive technology, BISCO USA,” Dr. Cannon said. “Almost every patient will have a THERA product at one time in their lives.”

References


PRO TIP

Dr. Carlo Cohn uses TheraCal PT in her office and has some advice on proper placement:

Place the tip of the syringe at the very base of the pulp chamber and slowly fill to the desired level, while leveling the tip of the syringe within the material at the time. Why? This ensues voidless pulp chamber filling.

Dr. Cohn uses the material for all primary dentition pulpotomies and finds it especially useful when restoring with a zirconia crown that requires a complete seal for pulp therapy or composite resin that requires an immediate set material.

She uses TheraCal PT just about every day, and also relies on TheraCal LT as an indirect pulp therapy/capping material.

“Using this material (TheraCal PT) will elevate your practice, increase your efficiency and efficacy, and decrease your chair time,” she said.
Additional Resources

Read the Dental Product Shopper Product Reviews
See what DPS evaluators are saying about each member of TheraFamily

TheraBase 4.5
TheraCem 4.4
TheraCal LC 4.2
TheraCal PT 4.2

Request a Free Sample
Ready to join the TheraFamily? Request free samples here.

Watch a Video
Learn more about the resin matrix found in TheraFamily products:

CONNECT WITH BISCO
Facebook LinkedIn YouTube Instagram