



SCIENCE
AND DENTISTRY.
BONDED.

Product Profile

TheraCal PT®

Dual-Cured Resin-Modified
Calcium Silicate Pulpotomy Treatment

**Your Partner in
Every Pulpotomy**



Rx Only

MC-9084PT

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TheraCal PT, the trusted solution for pulpotomies and long-lasting pulpal protection

The Clinical Challenge

Treating deep caries and managing pulpal exposures are among the most demanding situations clinicians face in restorative dentistry. Clinicians need materials that support vital pulp therapy while also fitting efficiently into modern restorative workflows.

Traditional pulp therapy materials can present several challenges, including complex mixing steps, extended working and setting times, and indications limited to specific procedures.

When managing these cases, clinicians must carefully balance multiple concerns:

- Preserving pulp vitality during treatment
- Managing direct and indirect pulp exposures
- Performing predictable pulpotomy procedures
- Minimizing chair time and procedural complexity
- Selecting materials that support efficient restorative workflows
- Achieving predictable long-term outcomes

TheraCal PT was developed to help address these challenges. Indicated for pulpotomies as well as direct and indirect pulp capping, TheraCal PT requires no mixing and offers short working and setting times to support efficient, predictable vital pulp therapy procedures.

Product Overview

Managing pulpotomy procedures and exposed pulp cases requires confidence. Clinicians need a material that protects vital pulp tissue, supports healing, and integrates seamlessly into restorative workflows. TheraCal PT was developed to deliver that confidence with a biocompatible, dual-cured, resin-modified calcium silicate formulation designed specifically for pulpotomies and the treatment of exposed dental pulp.

TheraCal PT helps preserve tooth vitality by forming a durable, protective barrier over

the pulpal complex. Its sustained calcium release and alkaline pH support an ideal environment for pulpal healing. ^{*1} The dual-cure formulation enables immediate placement of the final restorative material, streamlining the clinical workflow.

TheraCal PT is compatible with all bonding techniques—including self-etch, total-etch, and selective-etch protocols—and features a user-friendly syringe delivery system for precise, direct placement.



The chemical formulation of TheraCal PT consists of synthetic Portland Cement calcium silicate particles in a hydrophilic matrix which facilitates **calcium release**.



Biocompatible, resin-modified, calcium silicate material.



Primarily designed for **pulpotomy treatments**.



TheraCal PT's physical properties resist breakdown and degradation leading to a **durable seal**. *



Alkaline pH promotes pulp vitality.¹



Unlike traditional MTA products, there is no mixing by hand. **Easily and directly dispense** TheraCal PT from the dual-barrel auto-mix syringe.



Low water solubility and will not wash out over time. *



Radiopaque – allowing for easy identification and differentiation from recurrent decay and other restorative materials. *

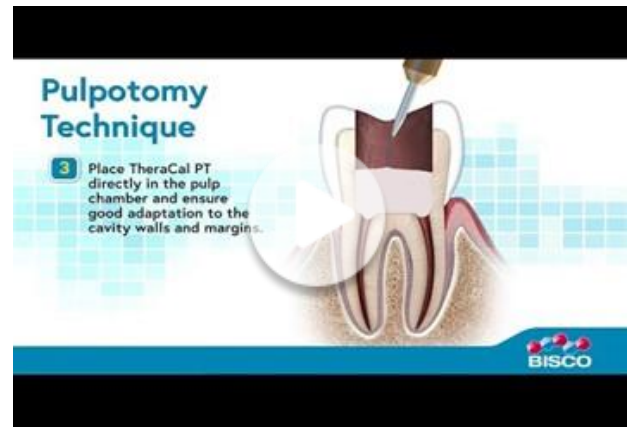


Time Saver - Can be directly applied to the pulp exposure and be used as a liner in the same prep, with no need for two separate products.

*BISCO has data on file



What is TheraCal PT? Click the video above to learn more!



Discover TheraCal PT! Click the video above to see its key features, benefits, indications, and why it's a standout material for pulpotomies.



Rolando Nunez, DDS

“TheraCal PT will cure on its own chemically so you don’t have to worry about having it properly polymerized by the light.”



Awards & Evaluations

Since its launch in 2019, TheraCal PT has received numerous awards for excellence in restorative dentistry, most notably earning the **Dental Advisor's Preferred Pediatric Product award for 5 consecutive years**. TheraCal PT is trusted by clinicians worldwide for consistent performance and predictable outcomes.



2x Award Winner



1x Award Winner

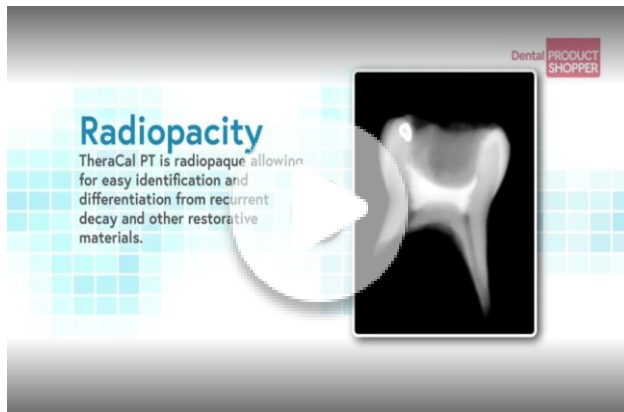


1x Award Winner



5x Award Winner

TheraCal PT DPS Evaluation



TheraCal PT was awarded a score of 4.2 out of 5 from Dental Product Shopper and is proudly recognized as a Dental Product Shopper Recommended Product!

Check out the video above to learn more about the Dental Product Shopper evaluation!

Want to see full TheraCal PT evaluations? Click on the logos below!



*TheraCal PT
Evaluation*



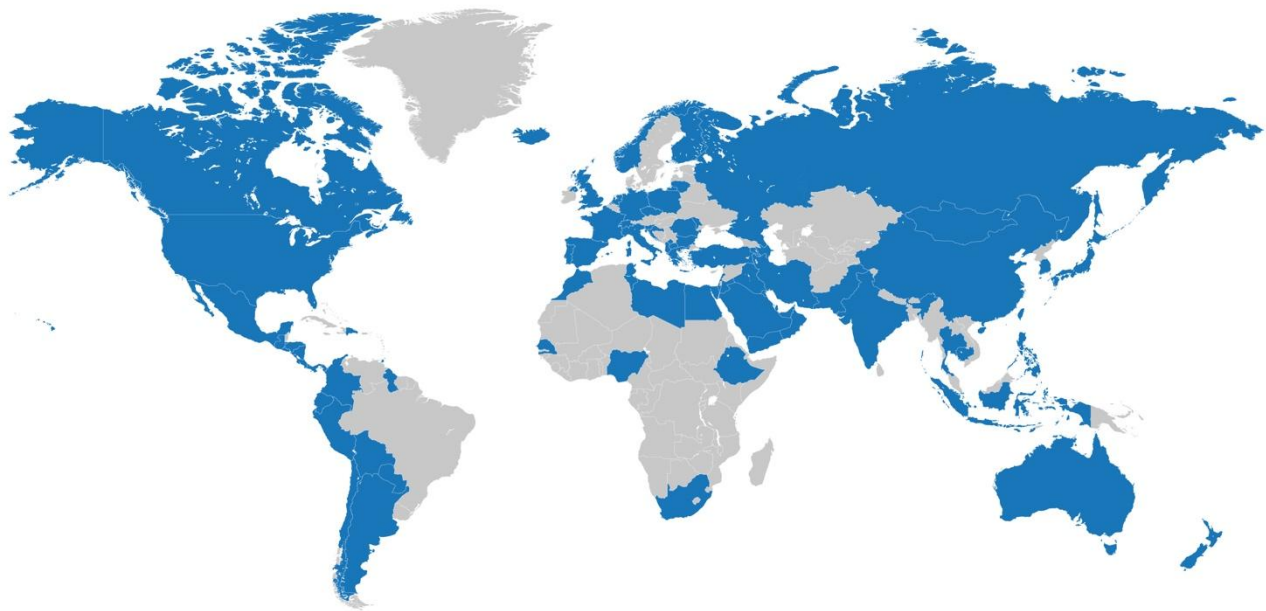
*TheraCal PT
Evaluation*



*TheraCal PT
Evaluation*

Global Reach & Impact

Since its 2019 debut, TheraCal PT has reached **70+ countries**, sold over **62,000 units**, and supported more than **740,000 pulpotomy procedures worldwide**— and these numbers continue to grow! *



North America

United States, Canada, Costa Rica, Dominican Republic, El Salvador, Guatemala, Honduras, Mexico, Panama, Nicaragua, Trinidad & Tobago

South America

Bolivia, Guyana, Argentina, Chile, Colombia, Ecuador, Paraguay, Peru

Europe

Albania, Azerbaijan, Belgium, Bulgaria, Croatia, Czech Republic, Finland, France, Germany, Great Britain, Greece, Iceland, Italy, Lithuania, Netherlands, Norway, Poland, Portugal, Romania, Slovenia, Spain, Switzerland, United Kingdom, Kosovo, Macedonia, Moldova, Russia

Asia

Bahrain, Cambodia, China, Hong Kong, India, Indonesia, Iran, Israel, Japan, Kuwait, Lebanon, Russia, Pakistan, Philippines, Qatar, Saudi Arabia, Singapore, Thailand, Turkey, United Arab Emirates, Armenia, Iraq, Jordan, Korea, Mongolia, Oman, Taiwan, Yemen

Africa

Egypt, Morocco, Nigeria, South Africa, Tunisia, Libya

Oceania

Australia, New Zealand

*All figures are based on sales data from 2019 to 2025. Estimated number of applications. Samples not included.

Who is TheraCal PT Right For?

Dentists who prioritize high-quality care understand that material selection plays a critical role in clinical success, especially in vital pulp therapy procedures where predictability, efficiency, and long-term outcomes matter.

TheraCal PT is designed for clinicians who value reliable performance and streamlined workflows when performing pulpotomies and direct or indirect pulp capping procedures. Rather than working with materials that require complex mixing steps or extended setting times, clinicians can rely on TheraCal PT's no-mix delivery and short working and setting times to support efficient treatment.

Clinicians who choose TheraCal PT are often looking for materials that help them:

- Preserve pulp vitality with confidence
- Simplify vital pulp therapy procedures
- Improve efficiency without compromising quality
- Support predictable restorative outcomes
- Integrate seamlessly into modern clinical workflows

For practices that believe quality dentistry begins with quality materials, TheraCal PT serves as a trusted solution for efficient, predictable vital pulp therapy and restorative success.



Indications

TheraCal PT is primarily indicated for:

- **Pulpotomies:** TheraCal PT may be placed after the partial or full removal of the coronal pulp.

TheraCal PT can also be used for:

- **Pulp exposures** (direct pulp capping): TheraCal PT may be placed directly on pulp exposures after hemostasis is obtained.
- **Protective liner** (indirect pulp capping) or base under a variety of substrates.



Working Time:
45 seconds at 35°C
(minimum)



Setting Time:
5 minutes at 35°C
(maximum)



Time Saver:
Restore in 1
office visit

Clinical Cases

See how clinicians use TheraCal PT for predictable pulpotomy procedures, preserving pulp vitality and restoring with confidence!

Pulpotomy Case

1

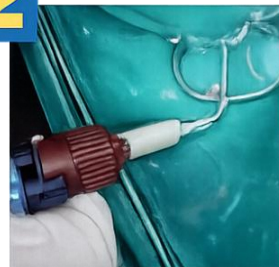


X-Ray of radiographic diagnosis of pulpitis.



Removal of coronal pulp and hemorrhage control.

2



Application of TheraCal PT in the pulp chamber.



Polymerized TheraCal PT

3



Final composite restoration and post-operative radiograph



4



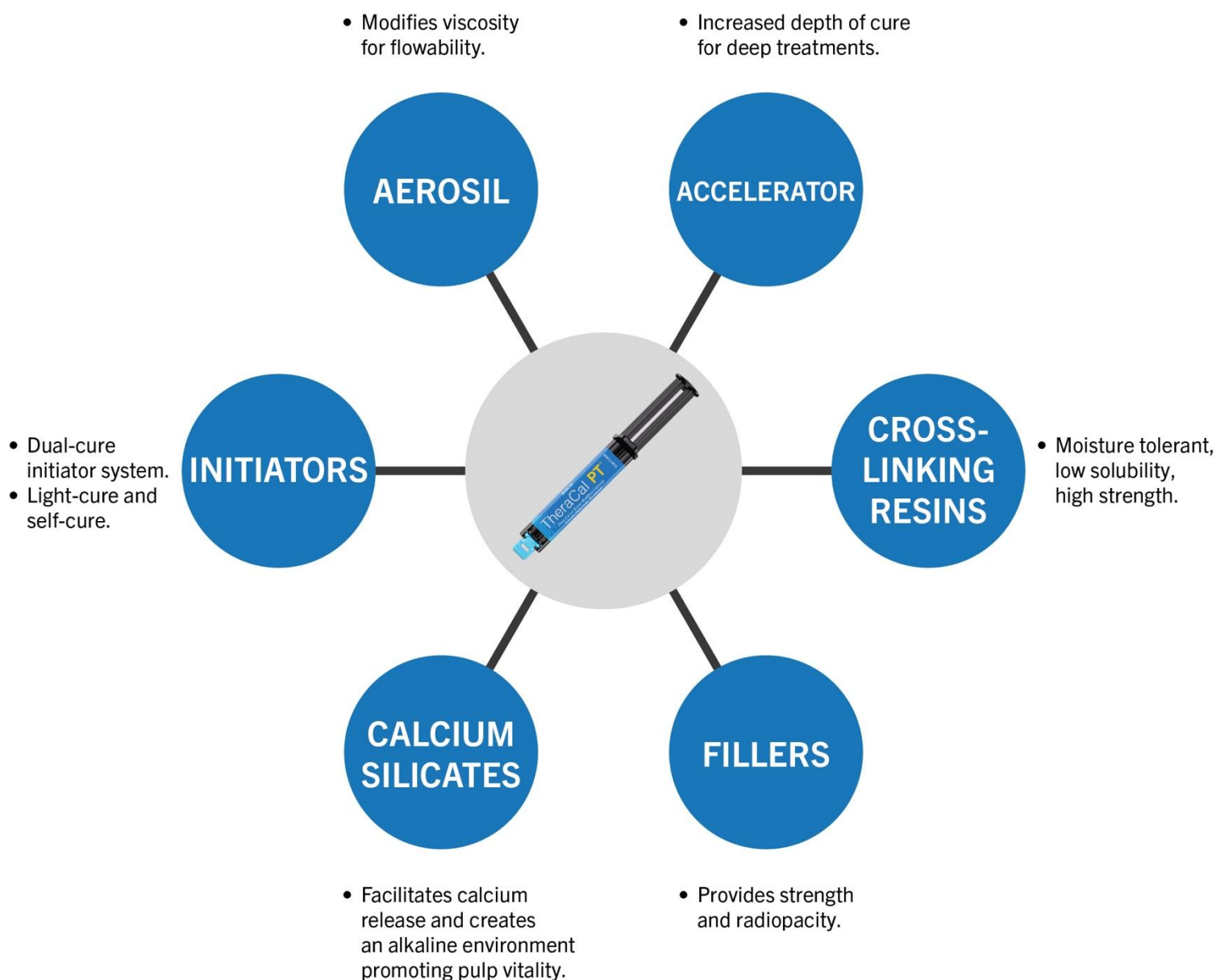
90-day clinical follow-up and radiograph



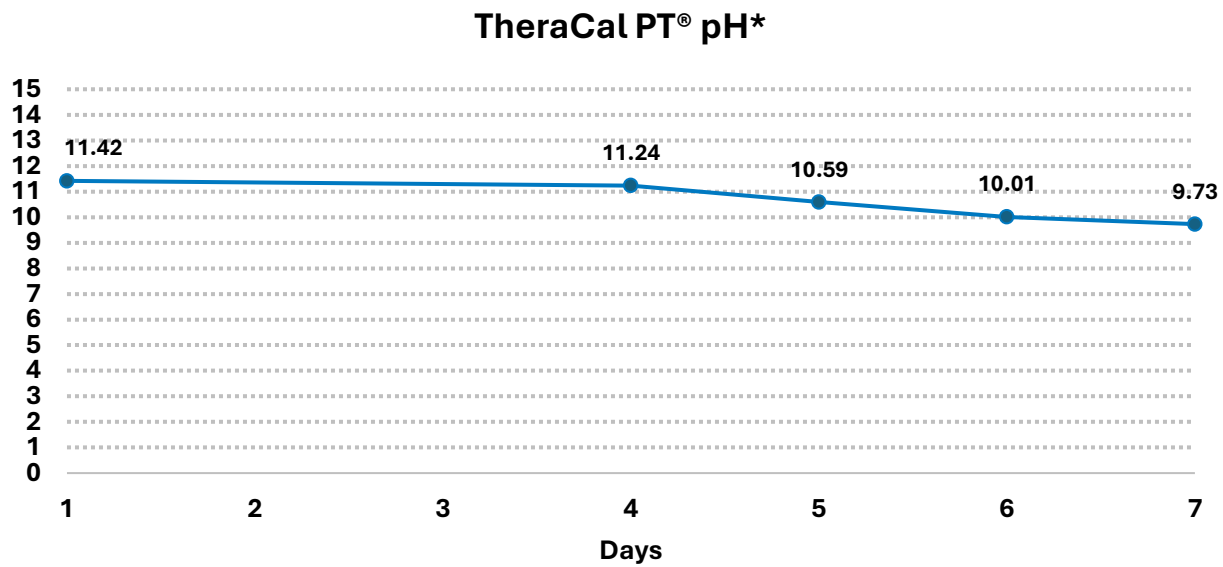
Dentistry Courtesy of Dr. Juan Carlos Hernández Cabanillas

Chemistry

TheraCal PT is an advanced, dual-cured, resin-modified calcium silicate material specifically designed for pulpotomies. As part of BISCO's award-winning Thera product line, TheraCal PT features an optimized chemical composition to deliver superior performance, reliability, and ease of use in clinical procedures.



Did You Know?



Did you know TheraCal PT reaches an alkaline pH which helps promote pulp vitality!¹

Click on the videos above to learn why maintaining an alkaline pH is critical for pulpal protection!

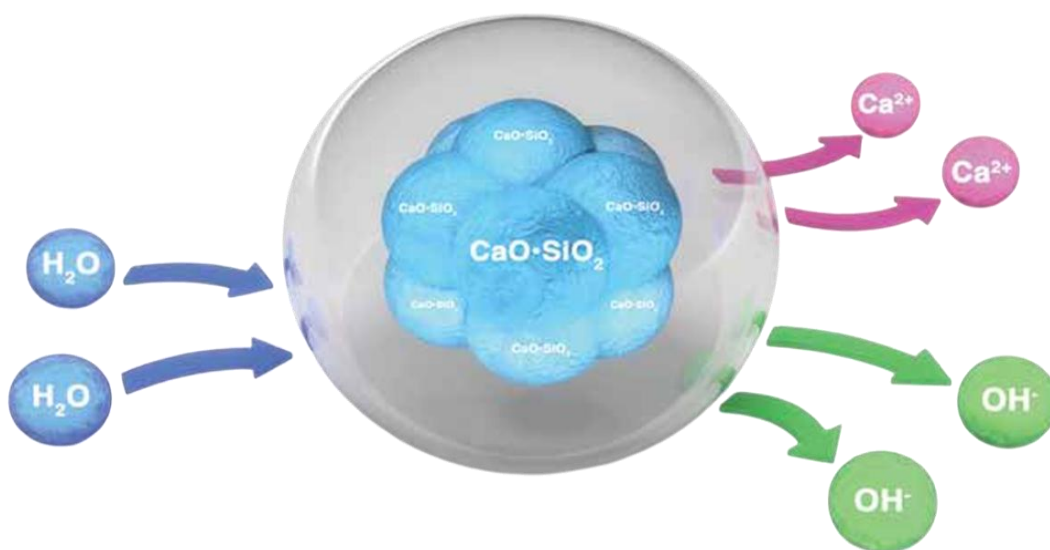
The Importance of an Alkaline pH



Click on the videos above to learn why maintaining an alkaline pH is critical for pulpal protection!

*BISCO has data on file

Powered by Thera Technology



Thera / Therapeutic = **Calcium Ion Release**
Thera Calcium Source = **Calcium Silicates**

BISCO has engineered a proprietary hydrophilic resin matrix that enables effective ion exchange—a significant advancement over traditional hydrophobic resin matrices. This unique composition allows water to penetrate the matrix, triggering the release of calcium hydroxide ions. The formulation of TheraCal PT incorporates calcium silicate particles suspended in a hydrophilic monomer, resulting in enhanced and sustained calcium ion release. This distinctive feature supports TheraCal PT's role as a highly stable and durable material for vital pulp therapy procedures, offering both therapeutic benefits and mechanical strength.

Click on the videos below to learn more about BISCO's Thera Technology!

The Resin Matrix



Calcium Releasing Materials

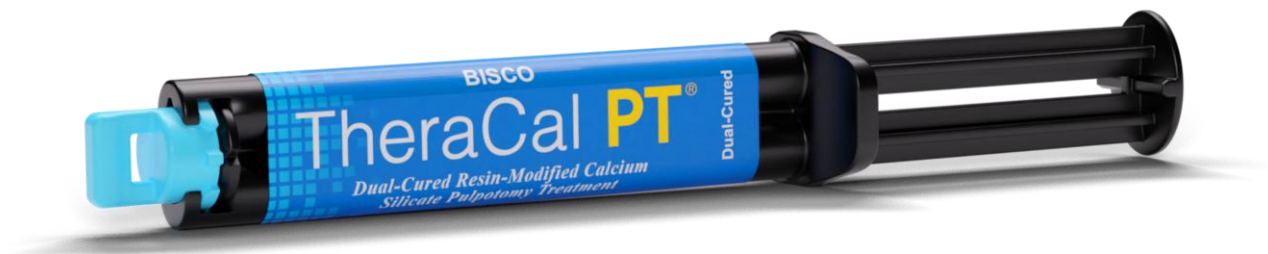


Biocompatibility

TheraCal PT has been thoroughly evaluated for biocompatibility as part of device design. Applicable testing has been conducted as indicated by international standards including the following:

- ISO 10993: Biological evaluation of medical devices
- ISO 7405: Evaluation of biocompatibility of medical devices used in dentistry

Material characterization, risk assessment, biological testing, and available information on all raw materials have been assessed to determine that TheraCal PT is safe for its intended use.



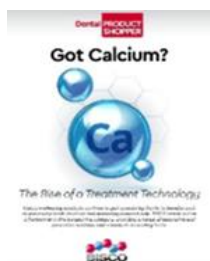
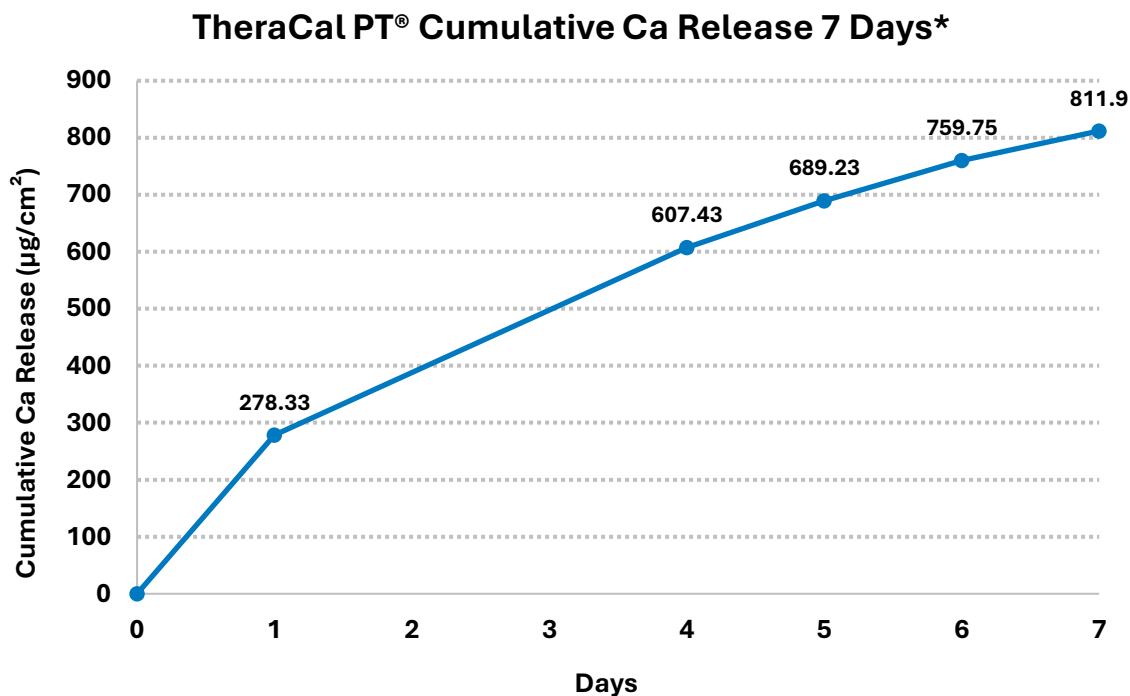
Physical Properties

Calcium Release

TeraCal PT delivers exceptional calcium release! Calcium release plays a vital role in restorative dentistry by supporting the natural healing process and creating an alkaline pH environment that has been shown to be detrimental to bacterial growth.⁽²⁻³⁾ Calcium release also serves as

the building block for hydroxyapatite formation,^(1,4) and makes pulp stem cells more viable.⁵

Check out the chart below which shows TeraCal PT's cumulative calcium release over 7 days!



Click on the eBook to learn more about the clinical benefits of calcium-releasing materials!

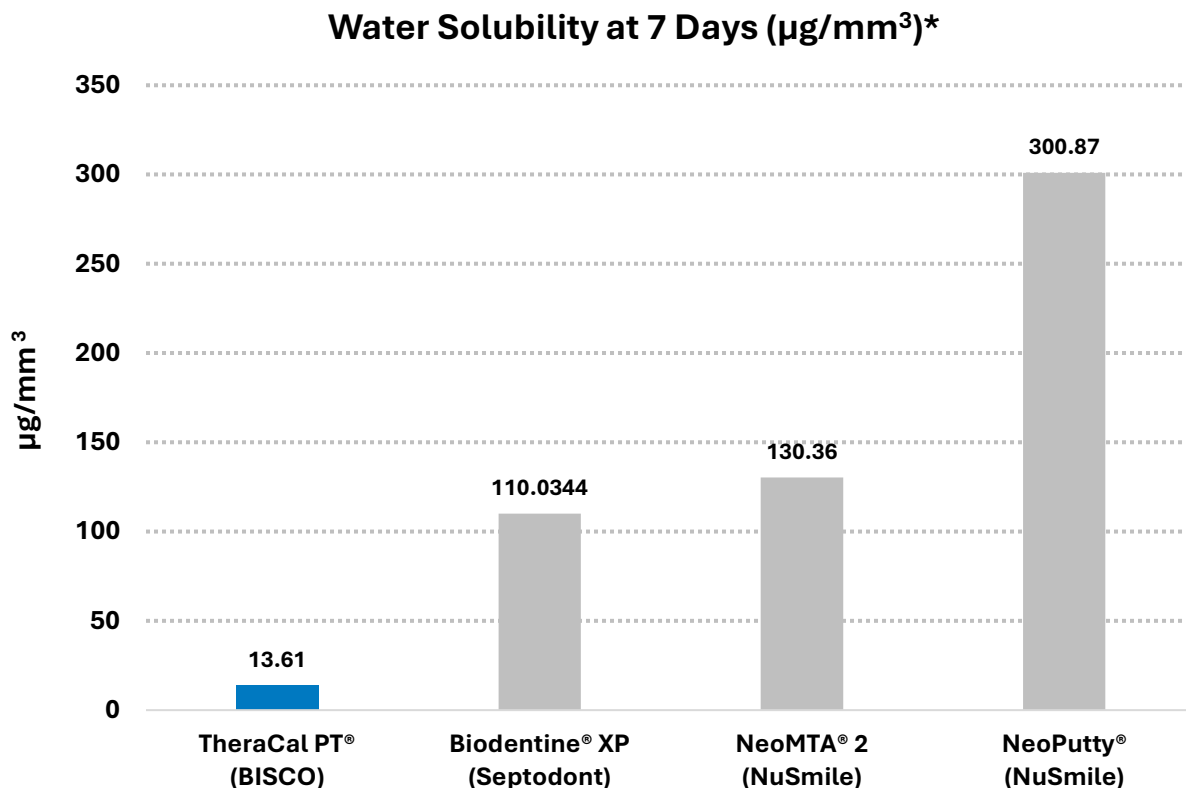
Water Solubility

Water solubility is a critical factor affecting the long-term durability and clinical performance of dental materials in the oral environment.

TheraCal PT is uniquely formulated with a proprietary resin matrix that allows for ion exchange without compromising stability. TheraCal PT's low water solubility is vital for maintaining material integrity, preventing washout, and ensuring long-term clinical success. High solubility is one of the major issues with traditional materials such as

calcium hydroxide.⁶ Elevated solubility may lead to softening of the liner and loss of material under poorly sealed restoration, where the oral fluids can penetrate through the tooth – restoration interface and partially or completely dissolve the pulp protecting material.⁷ TheraCal PT on the other hand maintains material integrity and won't dissolve over time.

Check out the charts below which demonstrates TheraCal PT's ultra-low solubility compared to other leading materials!



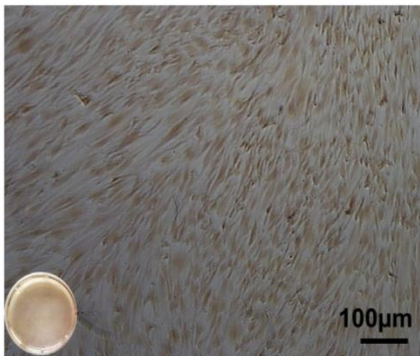
*BISCO has data on file. Multi-Cal™ (Pulpdent) was unable to set after the 72 hours at 37 C with addition of water. Biodentine® (Septodont) had severe degradation and disintegration during the 7-day storage per ISO 4049:2019 water sorption/solubility testing and was unable to be measured for weight.

Mineralization Potential

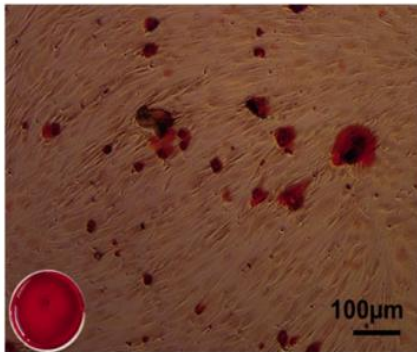
TheraCal PT has demonstrated in-vitro success in supporting improved pulp vitality.⁽⁸⁻¹⁰⁾ Its significantly higher mineralization potential—compared to both negative and positive control groups—highlights its ability to promote the

formation of a mineralized layer when in direct contact with pulp tissue during vital pulp therapy procedures.⁸ As a result, TheraCal PT exhibits enhanced in-vitro cytocompatibility and mineralization properties.⁽⁸⁻¹⁰⁾

Control



Biodentine



Theracal PT



Images courtesy of José Luis Sanz et al., Journal of Endodontics, 47(12), 2021, 1896–1906.

Images show samples of Alizarin red staining. An increase in the red color from the samples indicate a higher fixation to calcium deposits, thus, higher mineralization potential.⁸

Radiopacity

TheraCal PT is radiopaque (1.80 mm Al*), allowing clinicians to easily distinguish the material from recurrent caries, tooth structure, and surrounding restorative materials on radiographs. Adequate radiopacity is important because it facilitates accurate postoperative evaluation, helps monitor treatment over time, and reduces the risk of misinterpreting the material as recurrent decay or a radiolucent defect.



TheraCal PT Radiograph

*BISCO has data on file

Competitor Comparison Chart



	TheraCal PT® (BISCO)	NeoMTA® 2 (NuSmile)	Multi-Cal™ (Pulpdent)	BioDentine® (Septodont)	BioDentine® XP (Septodont)
Cure Mode	Dual	Self	Non-Setting	Self	Self
Storage*	Room Temperature	Room Temperature	Cool Room Temperature	Room Temperature	Room Temperature
Pulpotomies	Yes	Yes	Yes	Yes	Yes
Direct Pulp Capping	Yes	Yes	Yes	Yes	Yes
Indirect Pulp Capping	Yes	Yes	Yes	Yes	Yes
Working Time*	45+ Seconds	≥10 Minutes	Non-Setting	6 Minutes	≥1 Minute
Setting Time*	< 5 Minutes	Initial: 15 Minutes Final: 1:45 Hours	Non-Setting	6 Minutes	10-12 Minutes
Mixing	No Mix	Mixing required	No Mix	Mixing Required	Mixing Required

* Per manufacturer's instructions for use.

TheraCal PT VS Traditional Materials

TheraCal PT

VS

MTA

1

Simple & Easy to Use

TheraCal PT is simple and easy to use! Its delivery system, dual-cure capability, and optimized working and setting times make this a go-to pulpotomy product.

2

Syringe Delivery

Manual mixing is not required with TheraCal PT. The dispensing tip creates a uniform mix allowing for direct placement.

3

Easy & Consistent Handling

TheraCal PT offers a uniform mix and consistency that dentist can always rely on for easy handling. The material flows well and adapts to the pulpal floor with minimal manipulation.

4

Short Working & Setting Time

TheraCal PT is quick and efficient with a minimum working time of 45 seconds, and a maximum setting time of less than 5 minutes. Once cured, the prep can be immediately restored. TheraCal PT is a perfect time-saver for those antsy pediatric patients!

Not Easy to Use

MTA must be mixed or triturated and generally has long working and setting times.

Manual Delivery

MTA products often require manual mixing of a powder and liquid which can take up to 4 minutes. The success of the restoration is largely dependent on how well the material is mixed. ⁽¹¹⁻¹²⁾

Difficult to Handle

Studies have shown that the manual manipulation of MTA can lead to a mixture that is inconsistent or “slurry-like”.¹³

Long Working & Setting Time

MTA materials can have a working time of up to 20 minutes and are known for having prolonged setting periods, varying from 40 minutes to 4 hours. Adding “accelerators” can resolve this issue, but at the risk of decreasing compressive strength.¹⁴

TheraCal PT

VS

MTA

5

Any Etch/Bond System

Once cured, TheraCal PT is compatible with any etch/bonding technique (self-, total-, selective-etch) for optimal bonding and finishing of the restoration.

6

Less Solubility

TheraCal PT's unique hydrophilic resin matrix allows for ion exchange and calcium release, but it is not water soluble. *

Incompatible With Etch

Even if present in small amounts, phosphoric acid will alter the MTA setting reaction and reduce the micro-hardness of the set material. ⁽¹⁵⁻¹⁷⁾

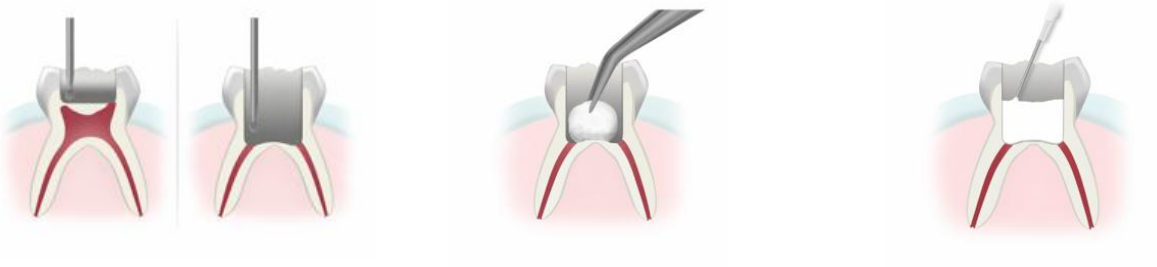
Higher Solubility

Increases in the water to powder ratio upon mixing MTA can lead to higher solubility, porosity, and loss in consistency. ¹⁸

Technique Guide

TheraCal PT features a simple technique designed for efficient restorative workflows!

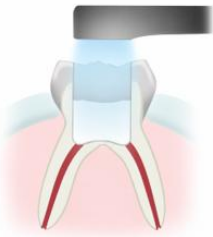
Pulpotomy Technique



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.

How to Use BISCO's TheraCal PT



Click on the video to learn how to use TheraCal PT!

Pulpotomies Done Better

TheraCal PT stands apart as a superior, innovative pulpotomy material that empowers you, the dentist, to deliver confident, efficient care while achieving optimal clinical outcomes for your patients.

1.



Calcium Release

The dual-cured, radiopaque, chemical formulation of TheraCal PT consists of synthetic Portland Cement calcium silicate particles in a hydrophilic matrix, which facilitates calcium release. *

2.



Alkaline pH

Creates an alkaline environment that promotes pulp vitality.¹

3.



Auto-Mix Syringe Delivery

Manual mixing is not required with TheraCal PT. The dispensing tip creates a uniform mix allowing for direct placement.

4.



Short Working & Setting Time

Quick and efficient with a minimum working time of 45 seconds at 35°C, and a maximum setting time of less than 5 minutes at 35°C. Once cured, the prep can be immediately restored. TheraCal PT is a perfect time-saver for those ansty pediatric patients!

5.



Moisture Tolerant

TheraCal PT's unique hydrophilic resin matrix allows for ion exchange and calcium release but is not water soluble. *

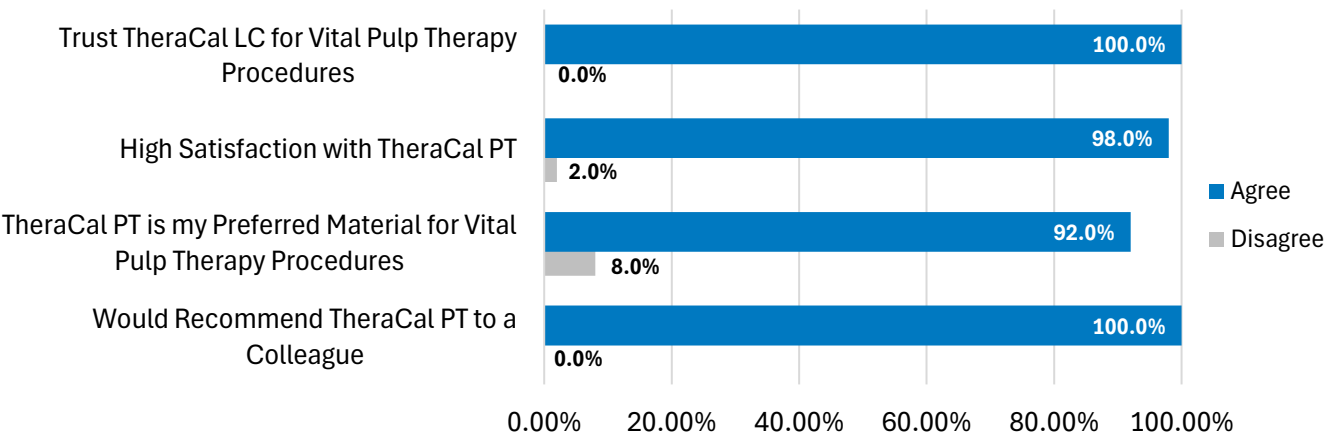
* BISCO has data on file

Customer Feedback

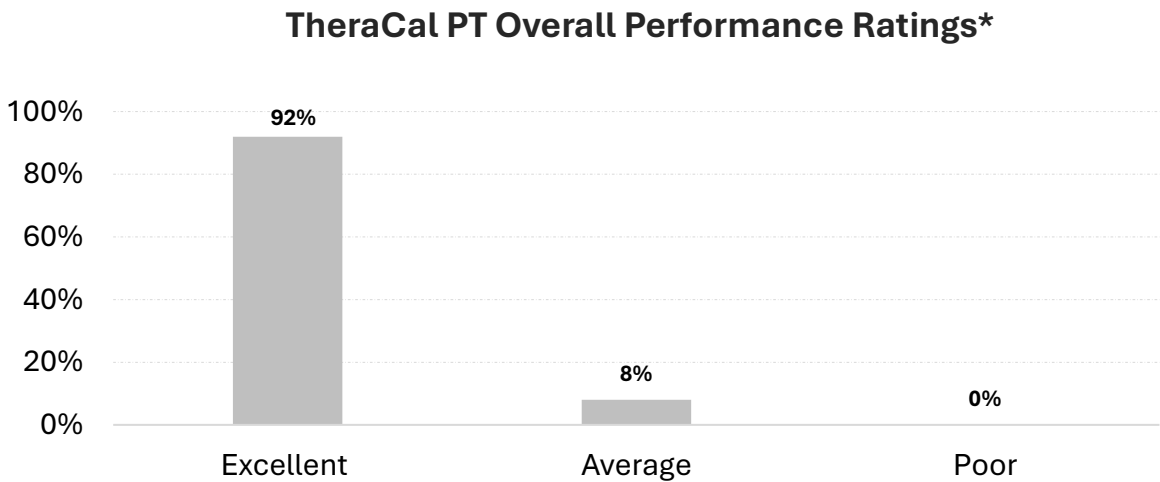
An online survey was conducted to collect customer feedback from active TheraCal PT users in the United States, yielding 50 responses in total. The survey was carefully designed with a series of rating-scale questions to thoroughly evaluate key aspects of the material, including its performance, ease of use, and overall user satisfaction. Survey results confirm what clinicians experience daily: predictable performance and reliability.

Customer Satisfaction

Survey respondents reported high levels of satisfaction with TheraCal PT, citing consistent performance, ease of use, and clinical reliability. The chart below presents their responses to satisfaction-related questions. *



When asked how they would assess TheraCal PT’s overall performance, almost all respondents gave it an excellent rating.

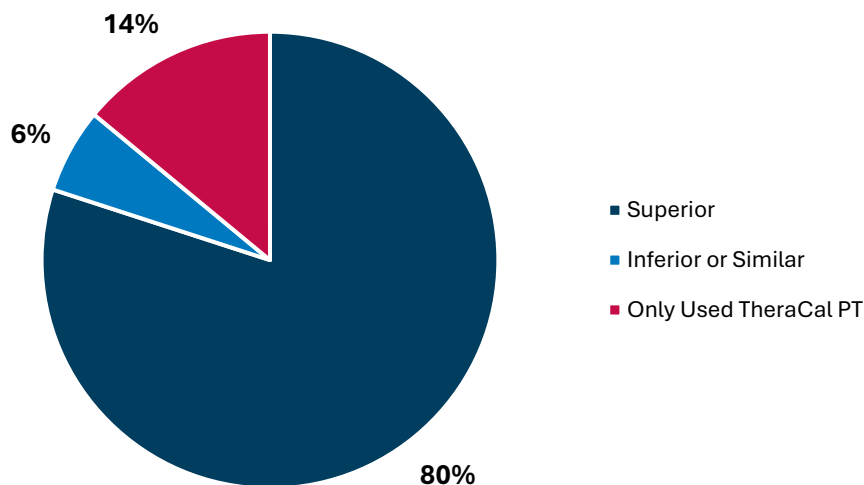


*BISCO has data on file

Performance & Clinical Outcomes

When asked about performance and clinical outcomes following the use of TheraCal PT compared to other materials, 80% of respondents reported TheraCal PT as superior. It is worth noting that 14% of respondents have only used TheraCal PT and have not used another similar material for comparison.

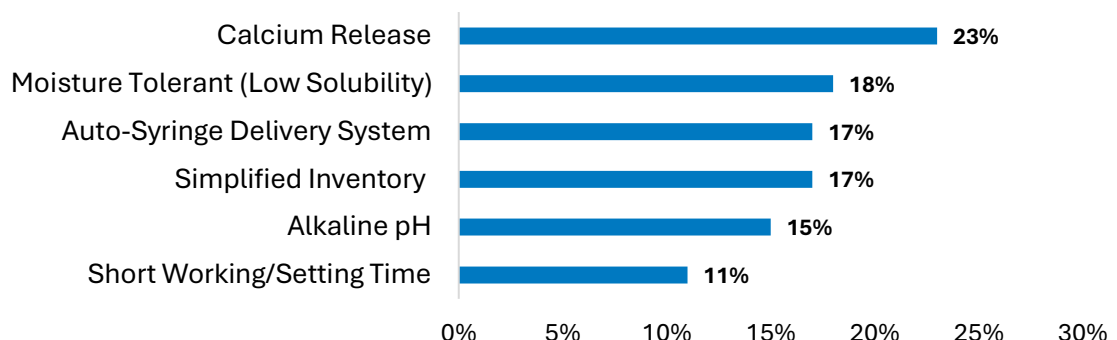
Performance & Clinical Outcomes: TheraCal PT Compared to Other Materials*



Most Valued Features

When asked to identify the three most desirable features TheraCal PT, the majority of respondents highlighted its calcium release, moisture tolerance, and auto-mix syringe delivery system contributing to their positive experience. The chart below illustrates which features respondents found most desirable.

Respondent Ratings of TheraCal PT's Top 3 Most Desirable Features*



*BISCO has data on file

Customer Testimonials

Hear what dentists across the country are saying about their experience using TheraCal PT in everyday restorative procedures!



Steven Lin, DMD
Long Island, NY

“Vital pulp therapy is becoming a modern standard especially with updated case selection guidelines. I am pleased that TheraCal PT provides for a seamless integration for my vital pulp therapy needs. Most pulpotomy treatment methods involve hand mixing powders and liquids, and TheraCal PT simplifies this - greatly reducing the training time needed to get the entire team onboard with the product.”



Charles Kim, DDS
Waterford, CA

“TheraCal PT is one of my favorite products in dentistry - I do a lot of deep restorations and it is a marvelous indirect pulp cap material!



April Toyer, DDS
Woodbridge, VA

“TheraCal PT is my go-to for pediatric pulpotomies. I have had amazing results with complex nerve involved fractures and could not live without it!”



Yu Ting Wang, DDS
Frisco, TX

“TheraCal PT has become our go-to material. We love how easy it is to use, how reliably it performs, and the confidence it gives us in everyday clinical situations.”



Eric Black, DDS
Green Valley, AZ

“I use TheraCal PT and LC. Since using it, I have not had any pulpotomy failures and almost all direct pulp caps have been successful. I have not had any post op sensitivity associated with indirect pulp caps. Easy to use. I love this product.”

Frequently Asked Questions

- 1. TheraCal PT and TheraCal LC – is there a reason to have both?**

TheraCal PT is not intended to replace TheraCal LC. TheraCal PT and TheraCal LC share some of the same indications for use, however, we recommend you use TheraCal PT for pulpotomies and continue to use TheraCal LC as a liner and for direct and indirect pulp capping. This approach is more cost-effective based on the number of applications from 1 box of TheraCal LC (4 - 1g syringes = 40-50 uses depending on application/s) versus TheraCal PT's 1 – 4g & 1 – 2g syringe (approximately 12 – 15 & 6 – 8 pulpotomy applications respectively).
- 2. What is the shelf life of TheraCal PT?**

18 months. TheraCal PT's syringe is pouched and should remain so until ready to use. Once the pouch is opened, use TheraCal PT within 90 days.
- 3. What is the storage for TheraCal PT?**

TheraCal PT should be stored at room temperature (68°-77° F; 20°-25° C).
- 4. How many applications can you get out of a TheraCal PT syringe?**

4g syringe = approximately 12 – 15 pulpotomy applications
2g syringe = approximately 6 – 8 pulpotomy applications
- 5. Do you need to place a bonding agent first?**

No. Achieve hemostasis, place TheraCal PT, light-cure for 10 seconds and place desired adhesive, base, and/or restoration following manufacturer's directions for restoring tooth.
- 6. Can disinfectants, desensitizers or wetting agents (i.e. Chlorhexidine, Gluma, Sodium Hypochlorite) be used prior to placing TheraCal PT?**

Yes, after hemostasis, disinfectants, desensitizers or wetting agents can be used. Please note per the instructions for use: when chlorhexidine and sodium hypochlorite are used together staining may occur. If used together there should be a saline rinse in between.
- 7. Does Theracal PT have the same viscosity as TheraCal LC?**

No. TheraCal PT is more viscous.
- 8. How are TheraCal PT and TheraCal LC different and/or alike?**

Unlike TheraCal LC, TheraCal PT is a dual-cured material indicated for pulpotomies. TheraCal PT and LC both use THERA technology which is a unique hydrophilic resin matrix that facilitates calcium release. PT and LC are both radiopaque, moisture tolerant and offer an alkaline pH.

THE BISCO STORY

Find out how BISCO's beginnings form the foundation of our commitment to lasting results and confident smiles



Restoration, Simplified

BISCO founder Dr. Byoung Suh began his scientific career as a research chemist developing restorative bonding products. In 1981, he founded BISCO to provide simplified, effective restoration solutions.

Over 40 years later, this goal guides BISCO's work to revolutionize bonding and make better dentistry possible across key areas:



**Treatment
Outcomes**



Efficiency



Cost Savings



**Patient
Satisfaction**

The Values Behind the Science

BISCO's commitment to better restorative dentistry goes beyond a passion for science. Guided by our core values, we apply our passion to offer you solutions.



Sharing Knowledge

We're always available to help you get the right solutions and perform your best dentistry.



Innovative Thinking

We incorporate customer feedback and industry conversations to design simple, effective products.



A Growth Mindset

We continuously evaluate our solutions for new ways to overcome common challenges.



Integrity

Every BISCO product is thoroughly researched and tested - often for years - before launch.

Bonding Breakthroughs

You tell us what you need - and we find a way. Here are some BISCO products that have helped to streamline protocols and deliver better results.



Z-Prime™ Plus

The first dedicated zirconia primer



TheraCal LC®

The first combined pulp capping agent and liner



All-Bond Universal®

A powerful, reliable single-bottle bonding agent



TheraCem®

A self-adhesive cement with THERA technology/zirconia bonding

For over 40 years, BISCO innovations have helped clinicians deliver predictable outcomes and preserve natural dentition.

BISCO: Who We Are

At BISCO, we cherish our customers as if they were part of our own family. We are committed to delivering exceptional service and support every step of the way.

Corporate Video



Click here to learn more about who we are and our history!

Trusted by Dentists Who Demand Predictable Results



*John Horn, DMD
Horn Family Dental*

“BISCO puts out very good products that every general dentist can use, and these competitively priced products produce outstanding results. BISCO just provides the personal touch.”



Lauren Yasuda Rainey, DDS

“BISCO is a solid organization, from chemical science to clinical delivery. Their top-notch customer service and knowledgeable team help me understand the research behind their materials, giving me confidence in patient care. Dentistry can be unpredictable, but with BISCO, I know I’ll get consistent, reliable results.”

BISCO's Direct-to-You Promise

Get the customer-driven products and services you need from the experts who make them. BISCO is a direct-to-you company, meaning we sell, ship, and serve our customers directly, and you can ONLY get BISCO products directly from us. This allows us to provide you with special

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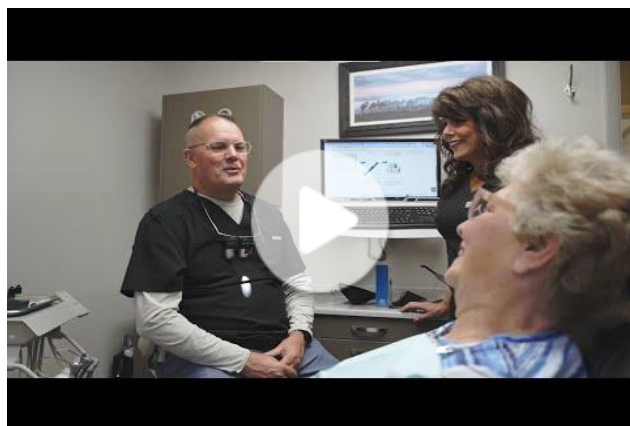
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