Seal and Protect with TheraCal LC
Pulp Capping Material and Liner
**TheraCal LC®**

**The SECURITY BLANKET for Pulpal Protection**

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**Advantages:**

- Improved seal and bond to deep moist dentin
- Strong physical properties
- High radiopacity
- Significant calcium release

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**PHYSICAL PROPERTIES**

<table>
<thead>
<tr>
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<th>Shear Bond Strength¹ (MPa)</th>
<th>Radiopacity (mm Al)</th>
<th>Calcium Release (24 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TheraCal LC</td>
<td>4.35 (2.93)</td>
<td>2.63</td>
<td>213 (µg/cm²)</td>
</tr>
<tr>
<td>Prisma® VLC Dycal®</td>
<td>0.94 (0.92)</td>
<td>0.79</td>
<td>NA</td>
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</tbody>
</table>

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¹ Visibly moist bonding

Prisma and Dycal are registered trademarks of Dentsply Caulk.
TheraCal LC Stimulates Apatite Formation

TheraCal LC is a light-cured, resin-modified calcium silicate filled liner designed for use in direct and indirect pulp capping, as a protective base/liner under composites, amalgams, cements, and other base materials. It can be used as a replacement for calcium hydroxide, glass ionomer, RMGI, IRM/ZOE and other restorative materials. TheraCal LC performs as an insulator/barrier and protectant of the dental pulpal complex.

The proprietary formulation of TheraCal LC consists of tricalcium silicate particles in a hydrophilic monomer that provides significant calcium release* making it a uniquely stable and durable material as a liner or base.

- Calcium release stimulates hydroxyapatite and secondary dentin bridge formation
- The alkaline pH promotes healing and apatite formation
- Significant calcium release leads to protective seal
- Forms a protective barrier that insulates the pulp
- Moisture tolerant and radiopaque - can be placed under restorative materials and cements

A Protective Liner:
Liquid Apatite at Your Fingertips

A protective liner for use under restorative materials, cements or other base materials.

Pulp capping agent: TheraCal LC may be placed directly on pulpal exposures after hemostasis is obtained. It is indicated for any pulpal exposures, including carious exposures, mechanical exposures or exposures due to trauma.

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

“WITH THE BIOMEMETIC PROPERTIES OF THIS UNIQUE LINER, I PLACE THIS ROUTINELY IN MY DEEP DIRECT AND INDIRECT RESTORATIONS PRIOR TO EITHER GLASS IONOMERS OR COMPOSITES.”

DR. LOU GRAHAM,
CHICAGO, IL

Direct Pulp Capping Placement
Dentistry courtesy of Dr. Mark Cannon

1. Hemostasis achieved prior to TheraCal LC direct pulp capping placement.
2. TheraCal LC applied directly to exposed pulp and light-cured in 1mm increments.
3. Etched, rinsed, and bonding applied.
4. Continued restoration of the tooth.
5. Final restoration.
Indirect Pulp Capping Placement

Dentistry courtesy of Dr. Ross Nash

1. Indirect pulp capping. Infected dentin is removed and affected dentin remains allowing for incremental layers of TheraCal LC to be placed.

2. TheraCal LC directly applied to preparation in 1mm incremental layers and manipulated into a smooth surface.

3. Each increment is light-cured for 20 seconds.

4. Surrounding enamel is etched using BISCO’s SELECT HV® ETCH.

5. BISCO’s ALL-BOND SE® is applied and light-cured.

6. Final prep after core build-up using BISCO’s CORE-FLO™ DC.

Ordering Information

4 SYRINGE PACKAGE

4 Syringes TheraCal LC (1g ea.), Accessories, Instructions/MSDS

REFILLS

1 Syringe TheraCal LC (1g), Accessories, Instructions/MSDS

50 Black Disposable Syringe Tips (22 Gauge)  H-3301P

15 Black Disposable Syringe Tips (22 Gauge)   H-3301N

BISCO products are proudly made in the U.S.A.

TO ORDER CALL: 800-247-3368 • 847-534-6000

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