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

H-33014P

REFILLS
1 Syringe TheraCal LC (1g), Accessories, Instructions
50 Black Disposable Syringe Tips (22 Gauge)

H-3301P
X-80621N

TO ORDER CALL:
800-247-3368 • 847-534-6000
www.bisco.com
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 formation2 3
- The alkaline pH promotes healing and apatite formation2 4
- Significant calcium release* leads to protective seal5 7 8
- Forms a protective barrier that insulates the pulp5 6
- 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.

Advantages:

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

TheraCal LC and Dycal are registered trademarks of Dentsply Caulk.

* Visibly moist bonding.
Prisma and Dycal are registered trademarks of Dentsply Caulk.

** High Performance Chemistry

** Unique Hydrophilic Matrix

** Calcium Release

- Hydroxyapatite formation1 2

** Healing & Insulation

- Liner insulates the pulp2, providing virtually no post-operative sensitivity
- Promotes healing3

** Easiness of Use

- Light curable, flowable-like handling

** Radiopaque

- Radiopaque properties allow for easy detection on x-rays

** Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>Shear Bond Strength5 (MPa)</th>
<th>Radiopacity (mm Al)</th>
<th>Calcium Release (24 h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>TheraCal LC</td>
<td>4.4(2.9)</td>
<td>2.6</td>
<td>213 (µg/cm²)</td>
</tr>
<tr>
<td>Prisma* VLC Dycal†</td>
<td>0.9(0.9)</td>
<td>0.8</td>
<td>NA</td>
</tr>
</tbody>
</table>

** After the initial layer is cured, a second layer of TheraCal LC is applied to exposed pulp and light-cured in 1mm increments.**

** Final restoration.**

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Support documents available - www.bisco.com