



**TheraCal LC®**

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



Rx Only

The  
**SECURITY  
 BLANKET**  
 — for —  
**Pulpal  
 Protection**



**TheraCal LC®**



**PHYSICAL PROPERTIES**

	Shear Bond Strength <sup>1</sup> (MPa)	Radiopacity (mm Al)	Calcium Release (24 h)
<b>TheraCal LC</b>	4.35(2.93)	2.63	213 (µg/cm <sup>2</sup> )
<b>Prisma® VLC</b>	0.94(0.92)	0.79	NA
<b>Dycal®</b>			

**Advantages:**

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

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*



Hemostasis achieved prior to TheraCal LC direct pulp capping placement.



TheraCal LC applied directly to exposed pulp and light-cured in 1mm increments.



Etched, rinsed, and bonding applied.



Continued restoration of the tooth.



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

H-33014P

### REFILLS

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

50 Black Disposable Syringe Tips (22 Gauge)

15 Black Disposable Syringe Tips (22 Gauge)

H-3301P

X-80621N

X-80622N



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

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