TheraCalm LC

Light-Cured Resin-Modified Calcium
Silicate Pulp Protectant & Liner

Preserves Pulp Vitality
with Confidence

U.S-Origin
Technology

NANOFIL Nova®

THERACALM LC

Light-Cured Resin-Modified Calcium Silicate Pulp Protectant & Liner

TheraCalm LC is a light-cured, resin-modified calcium silicate material indicated for direct and indirect pulp capping and as a protective liner beneath composite, amalgam, cement, and other restorative materials. It may be used as an alternative to calcium hydroxide, glass ionomer, resin-modified glass ionomer (RMGI), IRM/ZOE, and other base materials. TheraCalm LC provides an insulating and protective barrier for the dental pulpal complex.

TheraCalm LC' s syringe delivery system enables controlled, accurate placement in deep cavity preparations. Its non-slumping, easy-to-handle consistency ensures excellent handling characteristics, while its light-cure capability allows for immediate placement of the final restorative material.

PRACTICE

TheraCalm LC is not merely an additional material; it provides simultaneous improvements in procedural efficiency and clinical performance.

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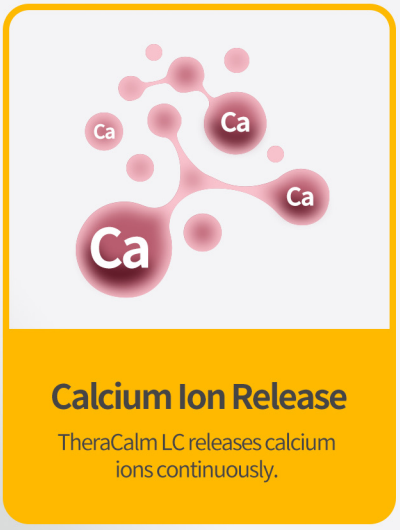
INSTANT LIQUID APATITE

Precision. Simplicity. Performance.

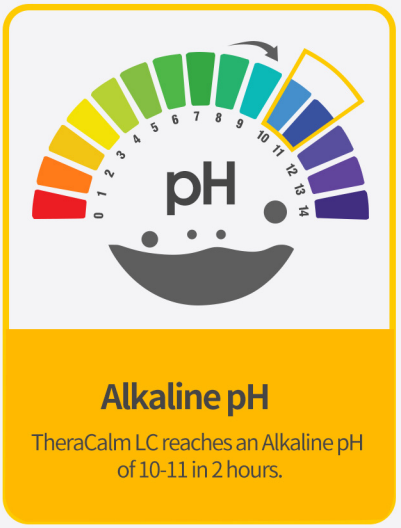
Pulp capping agent: TheraCalm LC may be applied directly to pulpal exposures following achievement of hemostasis. It is indicated for direct pulp capping in cases of carious, mechanical, or traumatic pulpal exposure.

Protective liner: TheraCalm LC serves as a protective liner beneath restorative materials, cements, and other base materials.



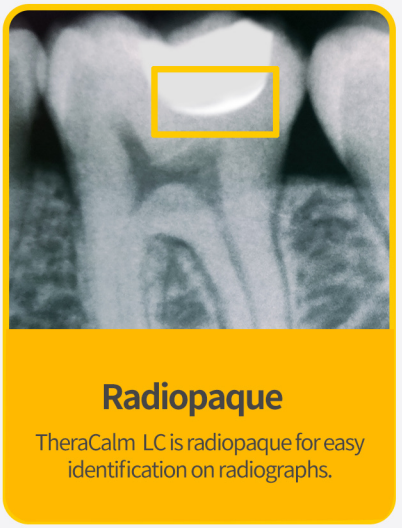
Calcium Ion Release

TheraCalm LC releases calcium ions continuously.



Alkaline pH

TheraCalm LC reaches an Alkaline pH of 10-11 in 2 hours.



Radiopaque

TheraCalm LC is radiopaque for easy identification on radiographs.

Calcium Release Comparison (mgCa/cm^2)

	Day7	Day30
TheraCalm LC	**542**	**1991**
Other brands	405	1877

★ Per the test results conducted by ATBIO

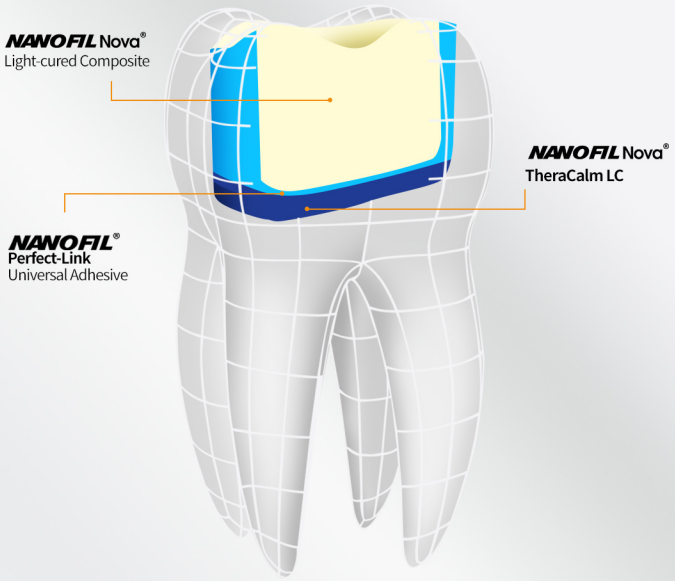
THERACALM LC

TheraCalm LC facilitates ion exchange, which leads to significant calcium release.

NANOFIL Nova®

A DISTINCTIVE HYDROPHILIC MATRIX TECHNOLOGY

Specially desinged formula of TheraCalm LC contains tricalcium silicate particles dispersed in a hydrophilic monomer matrix, providing sustained calcium release and forming a stable, durable dental-like shade material suitable for use as a liner or pulp capping material.



PRIMARY CLINICAL BENEFITS

Calcium release
Controlled calcium release stimulates hydroxyapatite deposition and supports secondary dentin bridge formation.

Protective seal
Consistent calcium release contributes to the creation of a durable protective seal.

Alkaline pH
Alkaline pH environment supports healing, maintains pulp vitality, and encourages apatite formation.

Insulates the pulp
Creates an insulating protective barrier for the pulp, minimizing the risk of post-operative sensitivity.

High radio opacity
Moisture-stable and radiopaque — it remains intact over time and is clearly visible on radiographs.

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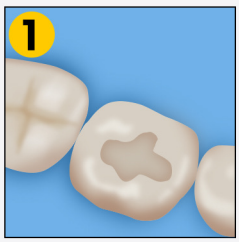
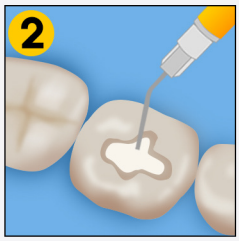
THERACALM LC IN ACTION

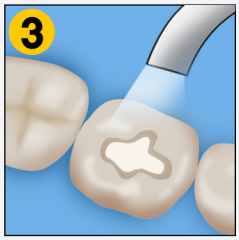
Indirect Pulp Capping Placement



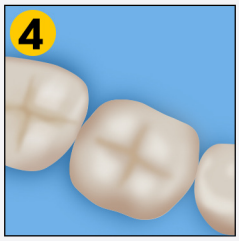
Place a rubber dam and perform a standard cavity preparation. Thoroughly remove all infected, carious tooth structure. Keep the dentin surface visibly moist.



TheraCalm LC directly to the floor of the cavity using an incremental layering technique; the thickness of each layer should not exceed 1 mm. Contour the material to achieve a smooth surface, ensuring that all deep dentin areas are covered. Light cure each layer individually.

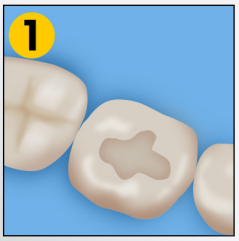


Use an LED curing light with an intensity of 1000–1200 mW/cm^2, and light-cure each layer for 20 seconds.

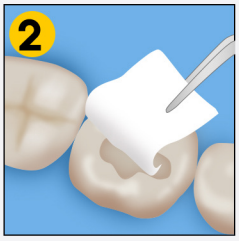


Apply the required bonding agent, liner, and /or restorative filling material sequentialy, in accordance with the manufacturer's instructions. Proceed to complete the dental restoration.

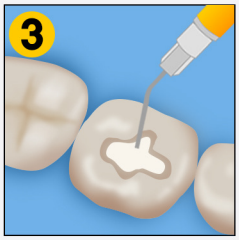
Direct Pulp Capping Placement



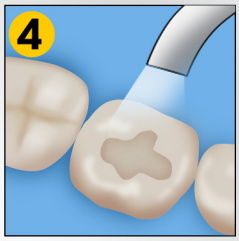
Place a rubber dam and complete the cavity preparation under moisture-free conditions.



Perform hemostasis: Take a sterile cotton pellet moistened with sterile saline solution and gently place it over the exposed pulp site. Gently wipe the prepared cavity surface with a sterile cotton pellet to absorb excess moisture; ensure that the dentin surface remains visibly moist.



Directly apply TheraCalm LC in layers over the exposed pulp surface. The thickness of each layer should not exceed 1 mm. Ensure that all exposed areas are completely covered and extend the TheraCalm LC onto the surrounding healthy dentin, covering an area of at least 1 mm beyond the exposure site. Light cure each layer immediately after application.



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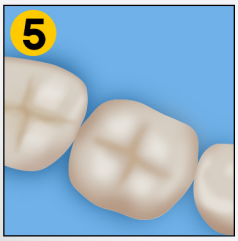

Apply the required bonding agent, liner, and/or restorative filling material sequentialy, in accordance with the manufacturer's instructions. Proceed to complete the dental restoration.

TheraCalm LC placement key points

Apply to a visibly moist dentin surface.
Apply in increments of less than 1 mm, and light-cure for 20 seconds.

NANOFIL Nova®

New Product Launch

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