ENDODONTICS

BIO-C® TEMP

Ready-to-use bioceramic paste for intracanal dressing.

Indications

- Intracanal dressing for endodontic treatment of teeth with pulp necrosis and retreatment.
- Intracanal dressing for cases of perforations, external and internal resorptions, prior to the use of BIO-C® REPAIR, MTA REPAIR HP and MTA ANGELUS®.
- Incomplete rhizogenesis.

Definition

BIO-C® TEMP is a ready-to-use bioceramic paste for intracanal dressing. It has a great advantage in relation to calcium hydroxide pastes because it presents low solubility and in this way allows the product to be in contact with the canal walls for a long period of time. As a result, a high release of hydroxyl (OH-) ions is obtained continuously and gradually. Available in a syringe with silicone cap and applicator tips specially developed for the product. The silicone cap effectively protects the product from external environment moisture, preventing premature hardening. The applicator tips are pre-curved and with adequate length, which facilitates the application in areas of difficult access.



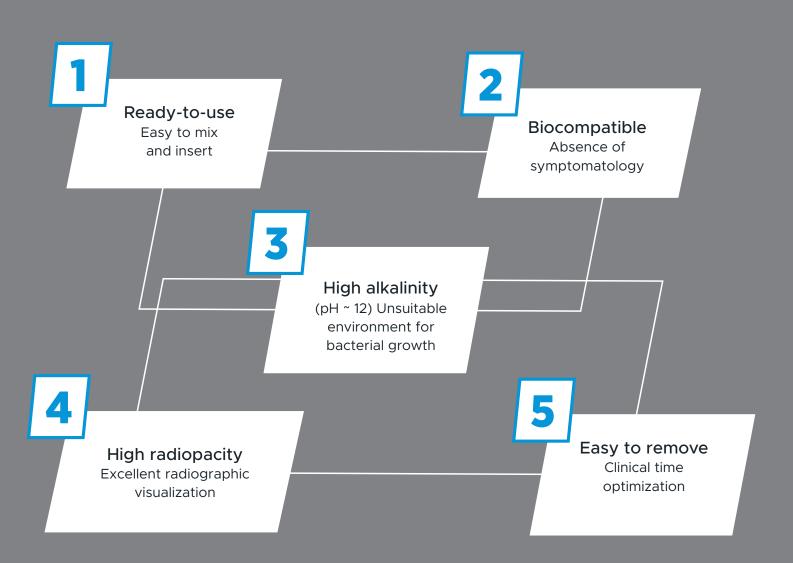




High radiopacity Easy to remove



Reasons to use BIO-C® TEMP



BIO-C TEMP PASTE 4-Pack x 0.5g syringes with 20 tips











Composition

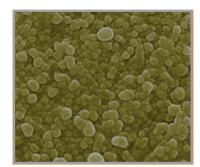
COMPONENT	FUNCTION
Tricalcium Silicate	Active components Release of Calcium and Hydroxyl ions
Dicalcium Silicate	
Tricalcium Aluminate	
Calcium Oxide	
Base Resin	Plasticity
Calcium Tungstate	Radiopacity
Polyethylene Glycol	Dispersing agent
Titanium	Pigmentation

Key Features and Benefits

The main components of BIO-C® TEMP are Calcium Silicates, which after hydrated produce Calcium Hydroxide that dissociates into Ca²⁺ and OH⁻. The released hydroxyl ions (OH⁻) are responsible for a significant increase in the pH of the surrounding tissue, making the environment unsuitable for bacterial growth.

Particle Size

Its particle size (≤ 2 µm) gives BIO-C® TEMP a better flow and penetration into the accessory canals and dentinal tubules, in addition to a higher product reactivity, which favors the faster release of Ca2+ ions and OH- ions



Images courtesy of Dr. Celson Klein.

Release of Ca²⁺ ions

The release of Ca2+ ions is key for the biological and chemical action of an intracanal dressing. BIO-C® TEMP presents a constant release of Ca2+ ions to the tissues being biocompatible, causing no irritation or painful symptomatology.

Radiopacity

BIO-C® TEMP has high radiopacity (≥ 9 mm in the Aluminum step-wedge), providing a radiographic visualization of excellence.



Veloso Carvalho de Oliveira.

Images courtesy of Dr. Maria Antonieta

NO STAINING

used in BIO-C®

TEMP does not

cause staining in

the dental structure

(Calcium Tungstate)

The radiopacificier

Easy removal

BIO-C® TEMP has been developed with a formulation that in addition to not setting it is easy to remove.

Technical Data

рН	~ 12
Radiopacity	9 mm Al
Particles Size	≤ 2 µm
Flow	23.85 ± 0.33 mm
Rheometry	11.0 ± 2.0 Pa.s
Solubility	0.15 ± 0.05%



Clinical Case

Courtesy of Dr. Maria Antonieta Veloso Carvalho de Oliveira.







BIO-C® TEMP application



appearance immediately after canal abturation



follow-up

Maria Antonieta



Paulo Vinicius



Luis Henrique



Testimonial

"Bioceramics are ceramic materials used in medicine and dentistry due to their biocompatibility and ability to create an ideal healing environment. BIO-C® TEMP is Endodontics' first intracanal bioceramic medication, indicated for cases of treatment and retreatment due to its high pH, its anti-bacterial, bacteriostatic and anti-inflammatory action and mineralization induction. Because it is a bioactive product, BIO-C® TEMP interacts with the surrounding tissue, stimulating healing, and the tissue system responds to the material as if it were a natural tissue. We use BIO-C® TEMP in the most diverse cases: pulpitis, pulp necrosis, periapical lesion, persistent fistula, inflammatory or purulent exudate, perforation, apexification, external and internal resorption. We recommend BIO-C® TEMP not only for its actions, but also because it is a ready-to-use product, easy to insert into the root canal and with no painful symptomatology even in cases where it extrudes through the apical foramen."

Filling with

BIO-C® TEMP

Staff of the Faculty of Dentistry of the Federal University of Uberlandia (FOUFU)

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