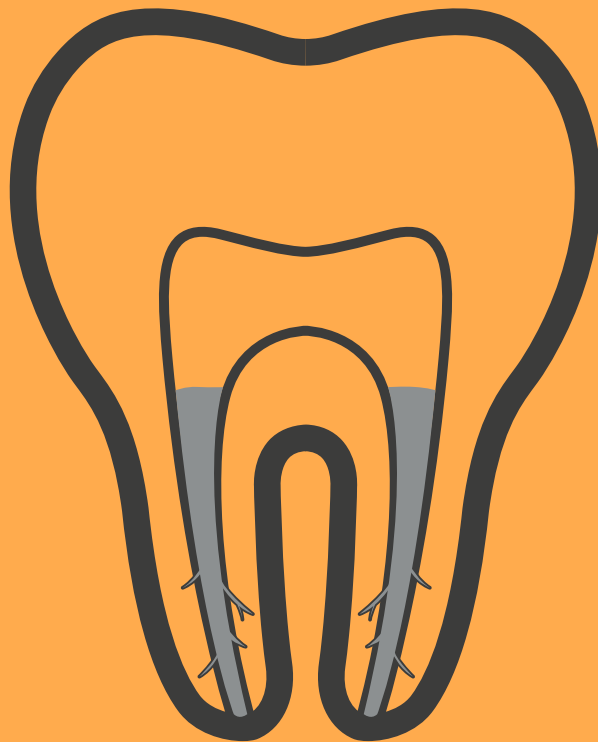


Bioceramic root canal sealer ready to use



5

Reasons to use Bio-C Sealer

1

Bioactivity

*Faster
recovery.*

2

High Radiopacity

*Excellent
radiographic view.*

3

Ready to use/ Pre-mixed

Clinical time optimization.

4

Non-resinous/ Eugenol free

*Easy to clean the pulp chamber
and does not stain dental structure.*

5

Setting Expansion

*Canal hermetic
sealing.*

Endodontic Success!



More than biocompatible, bioactive!

Bio-C Sealer

Bioceramic root canal sealer ready to use

Merely illustrative images.



INDICATION

Filling of root canals.

CHARACTERISTICS AND BENEFITS

- Pre-mixed: Ready for use/injectable;
- With Zirconia Oxide: Does not cause staining;
- Bioceramic formulation: High biocompatibility;
- Release of Calcium ions: Bioactivity;
- Alkaline: Antibacterial action;
- Interaction with dentin: High adhesion.

PRESENTATION

Ref. 3823 - Pack with 4 0.5g syringes and 20 applicator tips.

Definition

Bio-C Sealer is a ready-to-use bioceramic cement for root canal filling. The bioceramic composition allows the release of **calcium ions**, which stimulates the formation of mineralized tissue. Its mechanical and physical properties make it **easy to manipulate and seal the canals**, and its biological properties and high pH confer **safety and treatment success**.



Bioactive



Ready to use/
injectable



Does not stain

Composition

COMPONENT	FUNCTION
Tricalcium Silicate	Initial mechanical resistance
Dicalcium Silicate	Mechanical resistance over time
Tricalcium Aluminate	Initial setting
Calcium Oxide	Calcium ion release
Zirconia Oxide	Radiopacity
Silicon Oxide	Rheology agent
Polyethylene Glycol	Dispersing agent
Iron Oxide	Pigmentation

Bio-C Sealer is a non-resin cement that, in addition to its improved biocompatibility properties, also provides an easy pulp chamber cleaning after endodontic obturation.

EUGENOL FREE: Bio-C Sealer is free of Eugenol and therefore has lower cytotoxicity, does not cause staining and does not interfere with the polymerization of resinous materials (resin cements and composite resins).

Key Features and Benefits

Flow

High flowability allowing the filling of the main and accessory canals.



Ferrari, P

Radiopacity

Bio-C Sealer has high opacity (superior to 7 mm of the Aluminium step-wedge), providing an excellent radiographic view.



Rocha, V

NO STAINS
The radiopacifier used in Bio-C Sealer does not cause staining in the tooth structure (ZrO_2)

Setting Time

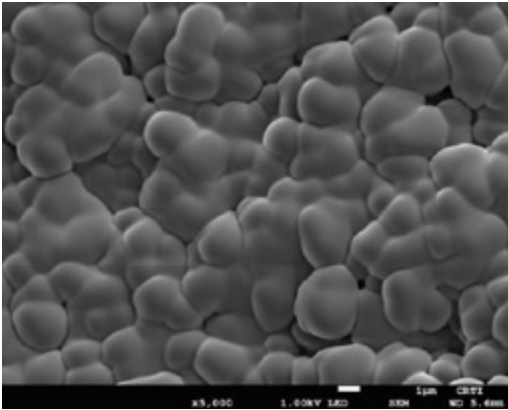
Bio-C Sealer setting reaction occurs through the contact with the moisture from dentinal canaliculi and periapical tissues, as it is a product with hydraulic characteristics. Setting occurs between 60 and 120 minutes.

Film Thickness

Particle size of less than $2\text{ }\mu\text{m}$ provides thin ($> 50\text{ }\mu\text{m}$) thickness, allowing the complete settling of gutta-percha, as well as cement penetration into the dentinal tubules.

Particle Size

Particle size (less than 2 µm) provides Bio-C Sealer with excellent flow, thin film thickness and diffusion to tissues, leading to a **faster regeneration**.



MEV FEG (5000x): Image obtained by secondary electron capture. (Siqueira, C.P)

Release of Calcium Ions

The release of Calcium ions is fundamental for the biological and chemical action of a filling cement. Bio-C Sealer presents constant release of Calcium to the tissues, promoting biomineralization and stimulation of the tissues for their fast regeneration.

Antibacterial Action

The high pH (12.5) gives Bio-C Sealer an antibacterial action, desirable for endodontic cements, which results in a more effective product with favorable treatment prognosis.

Technical Data

Setting Time	60 to 120 minutes
Radiopacity	Superior to 7.0 mm in the Aluminium (Al) Step-Wedge
pH	12,5 (after 12 hours)
Flow	23.46 mm
Particle Size	Less than 2 µm
Film Thickness	21µm

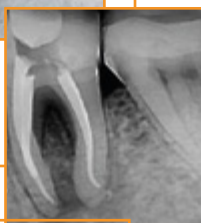
Benefits

✓ Biocompatible	✓ Easy to clean
✓ Bioactive	✓ Easy to apply
✓ High flow	✓ Calcium release
✓ Non-resin	✓ High pH
✓ Absence of discoloration	✓ Radiopaque
	✓ Hydrophilic

Clinical Cases



Bernardes, R.A.



Tavares, W.



Sellera, D.

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