

Bio-C[®] Sealer

Bioceramic root canal sealer ready to use



3

Reasons to use BIO-C[®] SEALER

1

Ready to Use

No mixing required.
Apply directly to canal.

2

Non resinous

Easy to clean.

3

High release of calcium ions

Stimulates tissue regeneration.

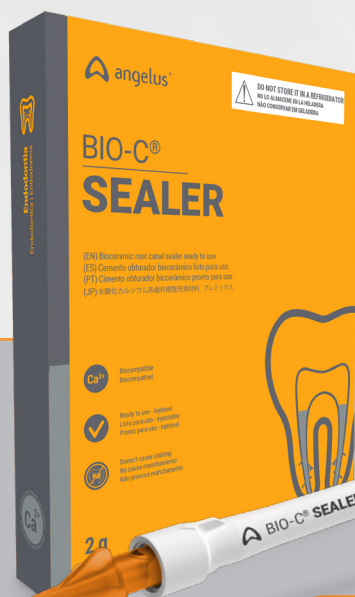
Endodontic Success!



More than biocompatible!

BIO-C® SEALER

Bioceramic root canal sealer ready to use.



Merely illustrative images.

INDICATIONS

- Filling of root canals;
- Treatment of non-communicating internal.

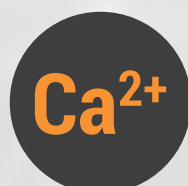
Definition

BIO-C® SEALER is a ready-to-use bioceramic filling cement. It presents a great advantage over traditional cements: it is easy to use as it **does not require mixing** and, consequently, prevents incorrect proportioning. The direct application to the root canal through an applicator tip syringe simplifies its use and provides great professional time-savings.

Besides its ease of use, it presents all the benefits of a bioceramic formulation: formation of mineralized tissue that **induces tissue regeneration** by the release of Ca^{2+} ions, bactericidal action by the release of OH^- raising pH and **inhibition of bacterial infiltration** by its high flow, setting expansion and chemical adhesion to dentin. As a result, **safety and high rates of success in endodontic treatment** are obtained.



Ready to use/
putty



High release of calcium ions



Bactericidal

Composition

COMPONENT	FUNCTION
Tricalcium Silicate (C_3S)	Mechanical resistance over time Calcium ions release
Dicalcium Silicate (C_2S)	Mechanical resistance over time Calcium ions release
Tricalcium Aluminate	Initial setting
Calcium Oxide	Calcium ions release
Zirconium Oxide	Radiopacity
Silicon Dioxide	Rheology agent
Polyethylene Glycol	Dispersing agent
Iron Oxide	Pigmentation

BIO-C® SEALER is a NON-RESINOUS 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 flow allowing the filling of the main, accessory, lateral, and recurrent canals and apical delta in a three-dimensional way.



Image courtesy of Dr. Patricia Ferrari

Radiopacity

BIO-C® SEALER presents high opacity (≥ 7 mm of the Aluminium step-wedge), providing an excellent radiographic view.

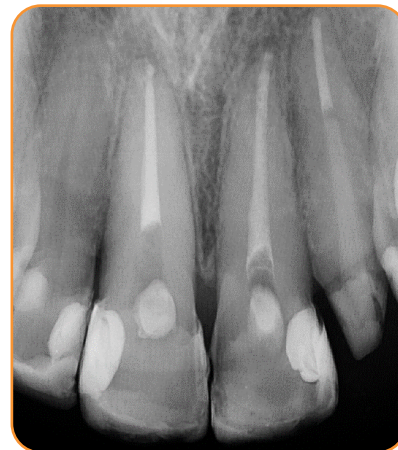


Image courtesy of Dr. Vicente Rocha

NO STAINS

The radiopacifier used in BIO-C® SEALER does not cause staining in the tooth structure (ZrO_2).

Setting Time

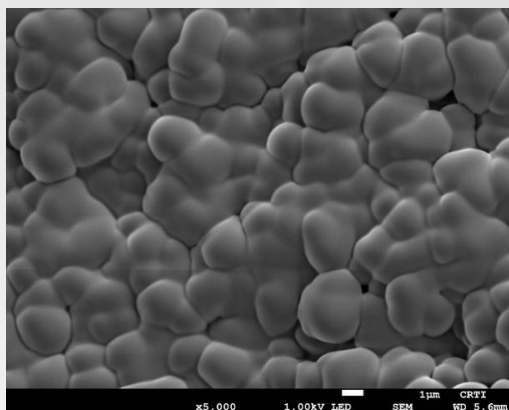
BIO-C® SEALER setting reaction occurs through the contact with the moisture from dentinal canaliculi and periapical tissues. Setting occurs between 120 and 240 minutes.

Bactericidal

Its high pH (~ 12) gives BIO-C® SEALER an antibacterial action, which is highly desirable for endodontic cements, increasing its effectiveness and consequently giving a favorable prognosis to the treatment.

Particle Size

Particle size ($< 2 \mu\text{m}$) provides BIO-C® SEALER with excellent flow, thin film thickness and higher diffusion to tissues, leading to a **faster regeneration**.



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

Release of Ca^{2+} ions

The release of Ca^{2+} ions is fundamental for the biological and chemical action of a filling cement. BIO-C® SEALER presents constant release of Ca^{2+} ions to the tissues, promoting biomineralization and stimulation of the tissues for their fast regeneration.

Technical Data

Setting Time	≤ 240 minutes
Radiopacity	≥ 7.0 mm Al
pH	$\cong 12$
Flow	23.46 mm
Particle Size	$< 2 \mu\text{m}$
Film Thickness	21 μm
Solubility	2.86%
Resistance to Compression	9.724 ± 2.484 MPa

Clinical Cases



Image courtesy of Dr. Ricardo Affonso Bernardes

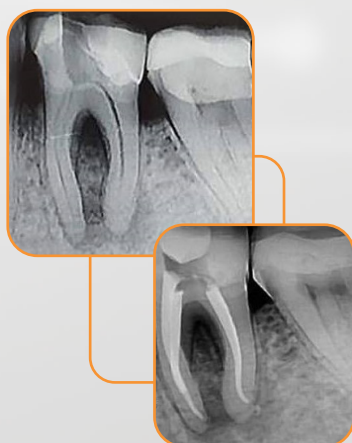


Image courtesy of Dr. Warley Tavares



Image courtesy of Dr. Débora Sellera

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Customer Service

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