Obturation made easy for everyone

BioRoot™ Flow

Bioactive Mineral Root Canal Sealer

septodont

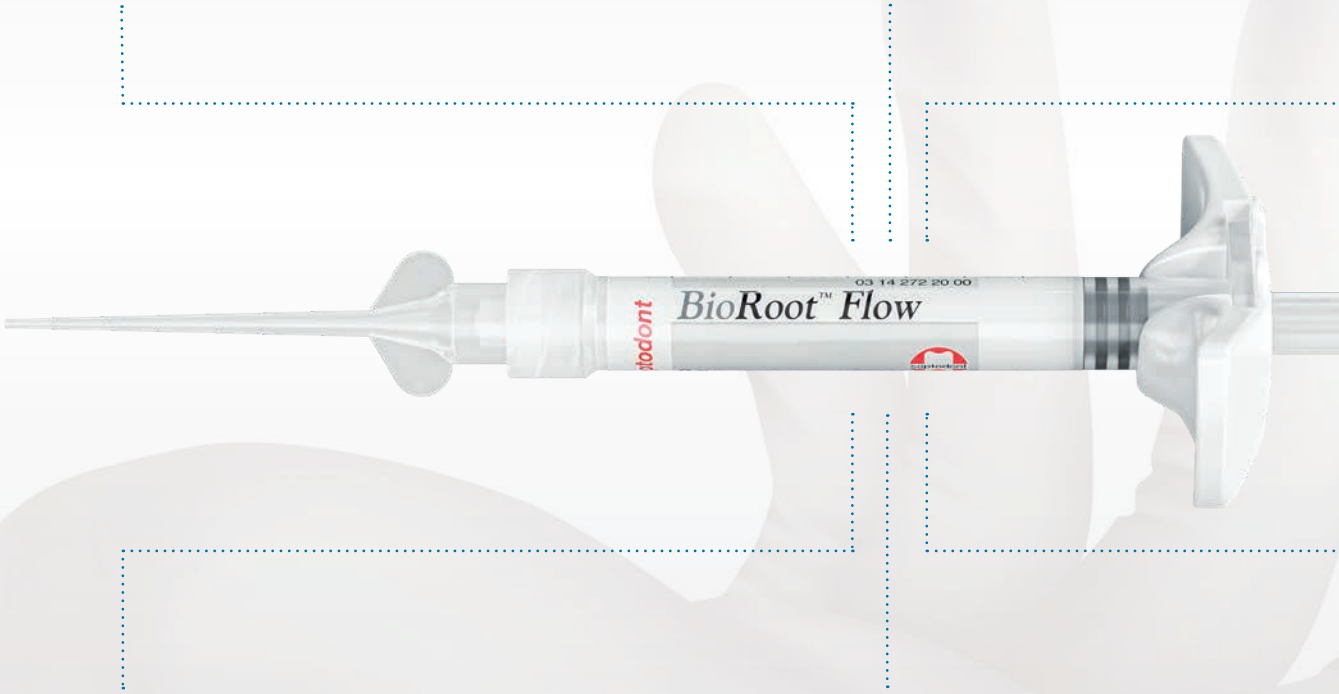
BioRoot™ Flow makes **obturation easy**

Ready-to-use syringe

- Easy and fast: no preparation time
- Consistent viscosity all the time
- All obturation techniques possible

Direct intra-canal delivery

- 21 gauge bendable tip
- Ensures adaptation to all root canals
- Limits the risk of overfilling



Keep your technique

- Keep your preferred obturation technique
- Or shift to easy single cone technique with efficient results (1)

Highly radiopaque

- >5 mm Al radiopacity
- Easily visible on X-Rays

(1) Internal data. Implantation endodontic test June 2020

Easy extrusion

- Limited plunger resistance [2]
- Anatomic finger grip for improved syringe handling
- Easy and precise delivery in mouth
- More comfortable and user-friendly [2]

Easily retreatable [3]

- Easy and fast to remove if necessary
- With hand files or rotary NiTi files

Technical Insights

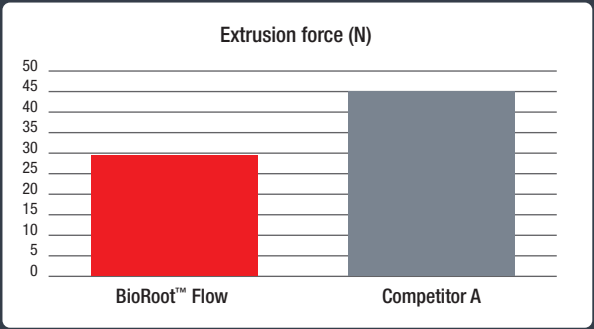
Innovative tip allows direct & precise placement in the root canal

- Flexible tips allow bending and access to all root anatomies
- Precise 21-gauge diameter for optimal delivery limiting the risk of going too deep

Source: internal data

(2) Less force needed for product extrusion

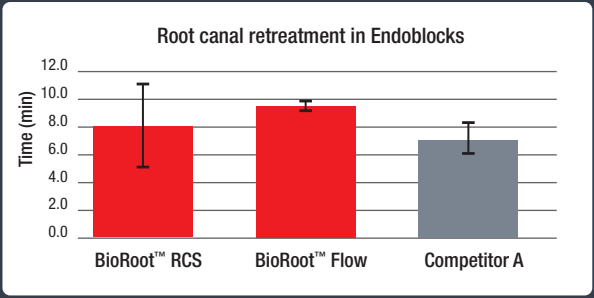
- BioRoot™ Flow requires only 30N
- Product extrusion is easy and comfortable



Source: internal data

(3) Easy and fast removal from root canal

- BioRoot™ Flow is removed to working length in less than 10 min



Source: internal data

BioRoot™ Flow makes **obturation successful**

No Shrinkage[1]

- Resin-free formulation
- Hermetic seal of the root canal[2]
- Allows best results even with single cone technique[3]

Limits bacterial growth

- High pH 8.5-11.5
- Creates an alkaline[4] environment, unfavorable for bacterial growth

Penetrates all radicular canals

- Without the need for compaction
- Hydrophilic sealer seeks for residual water in accessory canals & tubules[5]
- Excellent flowability of 23 mm and low solubility of 1.5%[6]

(1) Internal data. Pr Colon report
(2) Endodontic Implantation test . June 2020
(3) Mannocci. CED IADR 2019
(5) Drukteinis & Camilleri : Bioceramic materials in clinical endodontics. Springer 2020
(6) Internal data

Biocompatible[7]

- High purity Calcium Silicate from proprietary manufacturing process
- Ensures favorable tissue response
- Limits the risk of adverse reaction

Bioactive: triggers mineralization[8]

- Calcium ions release forms hydroxyapatite
- Increases the mineral density of dentin

Allows best results even with single cone technique

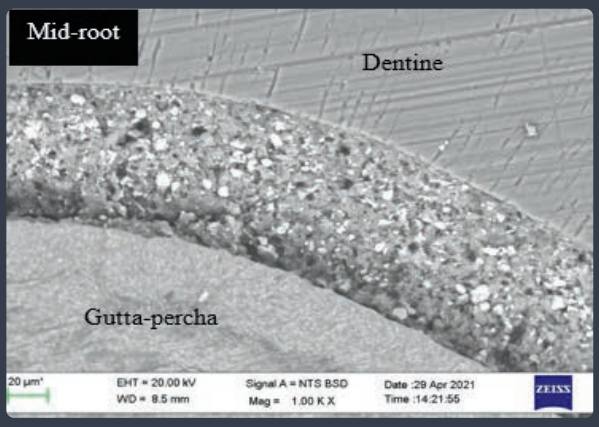
- Unique benefits of calcium silicate enhancing cold technique efficacy
- Obturation is just as successful as with warm techniques [3]

(7) PA1704 Inflammation and regeneration potentials ; About 2021

Technical Insights

Hermetic seal of the root canal

- Excellent adhesion to dentin & Gutta-Percha
- Eliminates residual spaces for bacteria to grow



BioRoot™ Flow SEM interfaces — Source: Dr Camilleri

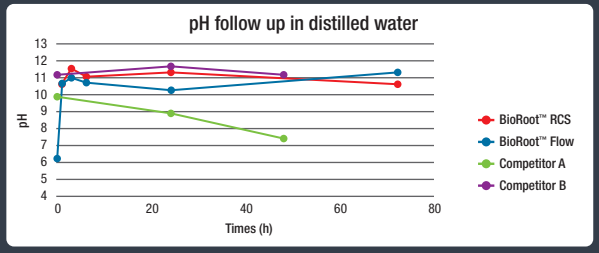
(8) Bioactivity and mineralization

- BioRoot™ Flow induces hydroxyapatite crystal formation by the reaction between calcium hydroxide and phosphate.

Image shows BioRoot™ Flow is immersed in Phosphate Buffered Saline (PBS - left picture) vs. water (right picture) — Source: internal data

(4) Long lasting high pH

- High pH is maintained over time, creating an alkaline environment in which bacteria will not grow



Source: internal data

BioRoot™ Flow is made **for everyone**

Whatever your technique

Warm or Cold, BioRoot™ Flow allows reproducible success

Cold Technique

- No shrinkage ensuring no gaps or voids (1)
- Excellent flow to penetrate accessory canals without compaction (2)
- Tight adhesion to dentin & Gutta-Percha for lower risk of bacterial infiltration (3)

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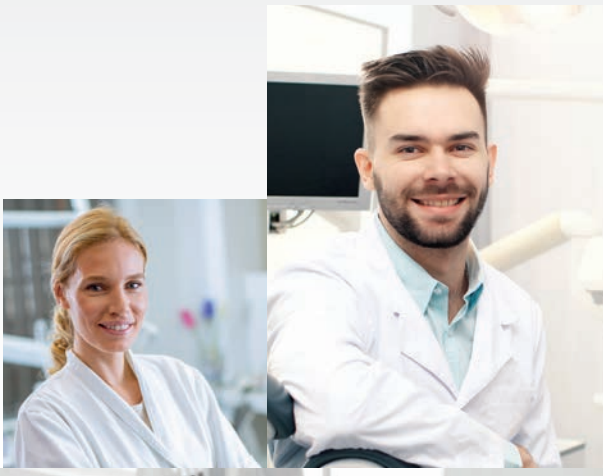
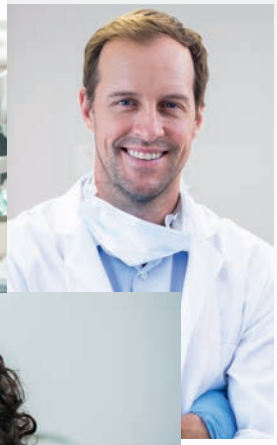
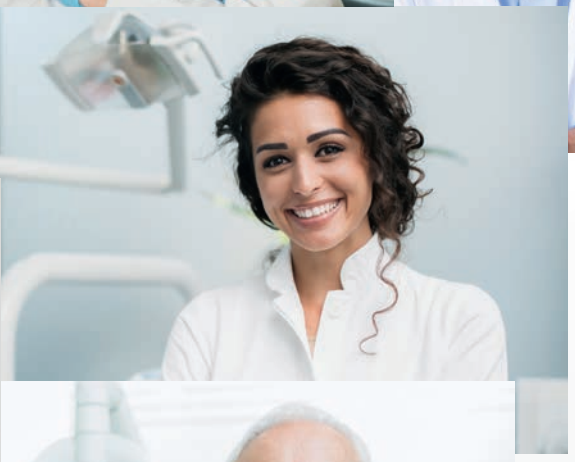
Warm Technique

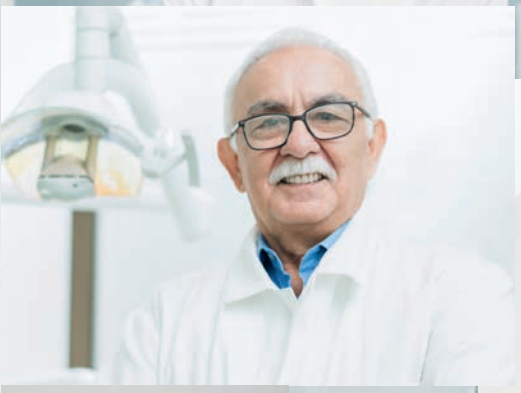
- Thin film thickness contributing to the clinical performance of the obturation
- Water intake from root canal only, allowing material's stability while heated (2)



(1) Internal data. Pr Colon report
(2) Drukteinis & Camilleri : Bioceramic materials in clinical endodontics. Springer 2020
(3) BioRoot™ flow SEM interfaces. Dr Camilleri







Whatever your practice

General dentistry or endodontics, BioRoot™ Flow is designed for you

General Dentistry

- BioRoot™ Flow takes single cone technique to the next level
- Allows you to save chair time with each endo patient
- While making no compromise with the quality of obturation [4]

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Endodontics

- BioRoot™ Flow penetrates areas that are hard to reach with a heated plugger (e.g. complex root canal anatomies)
- Consistent sealing quality whatever the obturation technique used [3]
- BioRoot™ Flow helps you value your expertise of saving teeth and of avoiding extractions

(4) Mannocci CED IADR 2019

Technical Features

Working time	>60 min	Radiopacity	6.3 mm Al
Setting time	5 to 6h00	Flow	23.2 mm
Extrusion Force	30N	Film Thickness	20.8 µm
pH	8.5 - 11.5	Solubility	1.5%
Calcium release	High		

Source: internal data; Dr Camilleri

Product information

- 1x2g syringe
- 1x finger grip
- 20 intra-oral tips

Septodont
58 rue du Pont de Créteil - 94100 Saint-Maur-des-Fossés - France
www.septodont.com

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