

OBTURATION  
INNOVATION



# BioRoot™ RCS

High seal, and much more

**bigman**  
dental

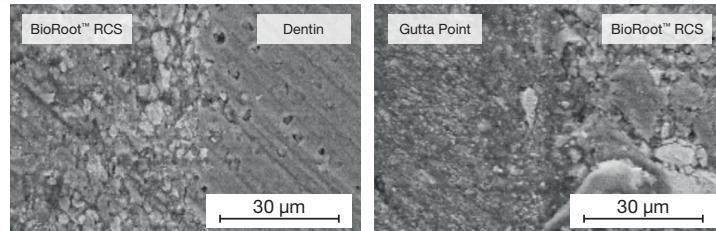


# 4 innovative features for

## ① High seal

### Tight interface

- Outstanding adhesion to dentin and gutta-percha points
- Less risks of voids



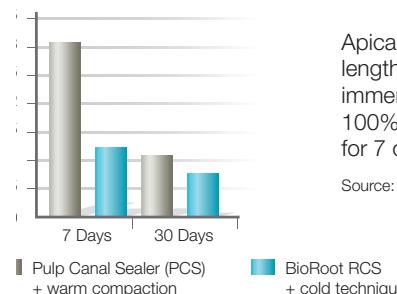
Tight dentin/BioRoot™ RCS/Gutta-Percha interface

Source: Internal Scientific file

### High microleakage resistance

- BioRoot™ RCS crystallization for a 3 dimensional seal
- Dentin structure mineralization through hydroxy-apatite formation
- Better microleakage resistance than warm technique at short times

#### BioRoot™ RCS vs. Gold standard



Apical penetration length after teeth immersion at 37°C and 100% relative humidity for 7 or 30 days.

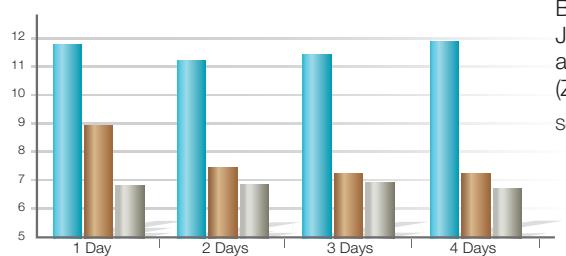
Source: Internal Scientific file

## ② Antimicrobial properties

### Creates a favorable alkaline environment

- Calcium hydroxide release
- Allows increase of pH value >11
- Prevents bacterial growth leading to clinical failures

#### pH Evolution (Set Material)



Comparative pH evolution of 3 root canal sealers: BioRoot™ RCS, AH Plus Jet (Epoxy resin matrix) and Pulp Canal Sealer (Zinc Oxide Eugenol)

Source: Internal Scientific file

■ BioRoot RCS  
■ AH Plus Jet  
■ Pulp Canal Sealer (PCS)

# successful obturations

## ③ Peri-apical healing

### Maximizes chances of success

- High purity mineral formulation
- Bioactive obturation:
  - stimulates bone regeneration
  - promotes periodontal healing

## ④ Easy obturations & follow-up

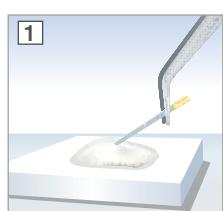
### Fast placement

- Easy coating of root canal walls
- Rapid insertion of the Gutta-Percha point
- Optimized working and setting times:
  - Working time: > 10 minutes
  - Setting time: < 4 hours

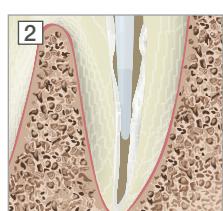
### Easy follow-up

- 5 mm Al radiopacity for easy follow-up on the radiograph
- Simple retreatment: use in combination with Gutta-Percha points

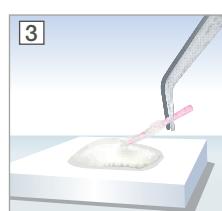
### Clinical implementation



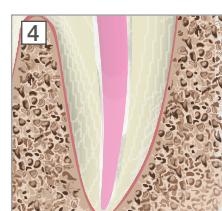
Take mixed BioRoot™ RCS with a paper point



Coat the root canal walls with BioRoot™ RCS



Coat the apically adjusted cone with BioRoot™ RCS



Insert the cone gently into the root canal



Immediate post-operative radiograph

# BioRoot™ RCS: high seal and much more

	Bioroot™ RCS	Epoxy-Based Sealers	Zinc Oxide Eugenol Pastes
OUTSTANDING SEAL	✓	✓	✓
EASY TO USE	✓	✓	✓
BIOACTIVE	✓	✗	✗
HIGH pH (>11)	✓	✗	✗
RESIN-FREE FORMULATION	✓	✗	✓
HYDROXY-APATITE FORMATION	✓	✗	✗
DENTIN MINERALIZATION	✓	✗	✗
RADIOPAQUE	✓	✓	✓

BioRoot™ RCS comes in a convenient hand-mix presentation

- Full control of the final viscosity
- Reduced risk of cross contamination compared to in-mouth inserted syringes
- Less material waste through hand dosage of powder



ACTIVE  
BIOSILICATE  
TECHNOLOGY

## 35-application pack

- 15 g powder bottle
- 35 single dose containers

08-564 373 70 | [www.bigmandental.se](http://www.bigmandental.se) | [mail@bigman.se](mailto:mail@bigman.se)

**bigman**  
dental

**Septodont** - 58 Rue du Pont de Créteil - 94100 Saint-Maur-des-Fossés - France  
Tél. : +33 (0)1 49 76 70 00 - Fax : +33 (0)1 48 85 54 01

Please visit our website for more information:

[www.septodont.com](http://www.septodont.com)

