

COMPOSITION

Powder based on tricalcium silicate, zirconium oxide and Povidone.
Aqueous solution of calcium chloride and polycarboxylate.

PROPERTIES

BioRoot™ RCS is a bioactive mineral root canal sealer based on Septodont patented and innovative mineral micro-aggregate chemistry "Active Biosilicate Technology" that offers :

- High mineral purity and monomer free formulation
- Hydroxyapatite formation at the tooth-sealer interface and mineralization of the dentinal structure
- Antimicrobial properties
- Resistance to microleakage
- Radiopacity
- Easy handling
- Retreatable

BioRoot™ RCS can be considered completely MR-safe with no potential for interaction with the MR field.

BioRoot™ RCS is suitable for use during pregnancy.

PERFORMANCES

- BioRoot™ RCS is highly biocompatible and reduces the risk of adverse tissue reaction
- BioRoot™ RCS stimulates bone physiological process and mineralization of the dentinal structure. BioRoot™ RCS therefore creates a favorable environment for periapical healing
- BioRoot™ RCS prevents bacterial growth leading to clinical failures
- BioRoot™ RCS crystallization creates a tight seal within the dentin tubules
- BioRoot™ RCS can be easily removed from the root canal if a retreatment is required

INDICATIONS

Permanent root canal filling in combination with gutta-percha points in vital or necrotic pulp cases or after a retreatment procedure.

BioRoot™ RCS is suitable for use in single cone technique or cold lateral condensation.

CONTRAINDICATION & PRECAUTION

Allergy to one of the components.

ADVERSE EFFECTS

No adverse effects known.

MIXING INSTRUCTIONS

The mix must be made extemporaneously.

- 1/ Collect the powder with the spoon supplied in the box. Put a level spoonful of the powder on the mixing pad.
- 2/ Detach a mixing solution single dose container. Twist cap to open. Pour 5 drops from the single dose container on the mixing pad.
- 3/ Prepare the root canal sealer by progressively adding powder to the liquid. Mix until obtaining a smooth paste (about 60 seconds). As soon as a smooth, creamy consistency is obtained, do not incorporate any remaining powder into the liquid.
- 4/ Immediately rinse and clean the instruments to remove any residual material.
- 5/ BioRoot™ RCS has a minimum working time of 10 minutes and a maximum setting time of 4 hours.

PLACEMENT INTO THE ROOT CANAL

- 1/ Perform the root canal cleaning and shaping procedure using standard endodontic procedures.
- 2/ Select standardized gutta-percha master cone and check that it fits snugly at the working length.
- 3/ Dry the canal with paper points.
- 4/ Prepare BioRoot™ RCS according to the above mentioned mixing instructions.
- 5/ Apply a coating of BioRoot™ RCS onto the canal walls using either a paper point or the gutta-percha point.
- 6/ Complete the obturation by inserting the gutta-percha master cone previously coated with BioRoot™ RCS (single cone technique) or several coated gutta-percha points (lateral condensation technique).
- 7/ Assess the quality of the root canal filling with a radiograph.
- 8/ Use a hot instrument to sever the protruding gutta-percha.
- 9/ Perform the temporary restoration using any temporary filling material.
- 10/ If a post placement is required, it should be performed after complete hardening of BioRoot™ RCS, i.e. between 1 week and 1 month.
A radiograph should be taken to ascertain the persistence of 3 to 5 mm of the apical root filling.

BioRoot™ RCS REMOVAL

Since BioRoot™ RCS is used in combination with gutta-percha points, it can be removed using conventional removal techniques.

WARNINGS & PRECAUTIONS FOR USE

- Ensure that the rubber dam is properly placed so as to completely isolate the operating field.
- In case of a wide apical foramen, an apexification of the root should precede the root canal filling.

CONSERVATION

Store in a dry place.

Single-dose containers must be used immediately after opening. Any remaining material should be discarded.

Use the powder within 6 months after first opening.

PRESENTATION

- 1 bottle of 15 g powder
- 35 liquid single-dose containers
- 1 spoon

For professional dental use only