

INSTRUCTION FOR USE

BioActive RCS (Bio Ceramic Sealer)

COMPOSITION

Calcium Silicates, Calcium Aluminate, Calcium Hydroxide, Zirconium Oxide and Dispersing Agent.

PROPERTIES

BioActive RCS is a bioactive mineral root canal sealer based on innovative mineral micro-aggregate chemistry "Active Biosilicate Technology" that offers

- 1) Biocompatibility: high mineral purity and monomer free formulation reducing the risk of adverse tissue reaction
- 2) Bioactive properties: hydroxyapatite formation at the tooth-sealer interface and mineralization of dentinal structure
- 3) Alkaline pH
- 4) Sealing properties: crystallization of the material inside the dentin tubules creating a tight seal
- 5) Retreatable : if a retreatment is needed, BioActive RCS can be easily removed from the root canal

INDICATION

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

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

CONTRAINDICATION

Drug idiosyncrasy

Do not misuse

PRECAUTIONS

Wear safety goggles, mask and gloves when handling the product. In case of contact with eyes or skin. Wash with water.

SIDE EFFECTS

As far as all terms of storing, transporting and application are observed, there are no side effects

TECHNICAL INFORMATION

- Biocompatible Product ready for use;
- Setting time: 4.5 hours after insertion into the canal, according to ISO 6876; Important: Dry with paper cones, but without excessively drying the canal; the moisture from the dentin tubules will initiate the material's setting reaction;
- Antibacterial and bacteriostatic due to its high alkalinity – pH:12.5;
- High radiopacity : 8 mm of aluminum scale, according to the ISO 6876 standard;
- Does not suffer setting contraction;
- It can be used, in addition to conventional techniques, in single-cone techniques and thermoplastic filling.

USE TECHNIQUE

Use of Applicator Tips

1. Position the applicator tip in the syringe and perform the chemical decontamination of the assembly (tip +syringe)
2. We recommend using a disposable plastic cover on the syringe to avoid cross-contamination;
3. Confirm the material exits from the syringe before direct application to the channel;
4. Position the tip and syringe assembly properly into the canal and depress the plunger lightly to prevent excessive output of the product;
5. Before closing the syringe, retract the plunger to stop the outflow;
6. Clean any excess material on the tip of the syringe and close with appropriate pressure after use to prevent contact with moisture, which causes the product to dry;
7. Clean and disinfect the syringe in subsequent uses to avoid cross-contamination; in case of contamination with saliva or blood, discard it.

A. SEALING THE ROOT CANAL OF PERMANENT TEETH

Traditional technique – Lateral compression

1. Anesthetize, install absolute isolation and then perform the biomechanical preparation of root canal;
2. Remove the sealing tip and attach the applicator tip on the syringe;
3. Dry the canal only with absorbent paper cones without causing excessive dryness;
4. Apply BioActive RCS in the apical third of the canal directly with the syringe;
5. Insert the gutta percha cone in the canal according to the last file used covered with BioActive RCS;
6. X-ray for checking the correct filling of the canal;
7. Cut the cone at the desired height with heated instruments followed by vertical compression;
8. Remove, with water, excessive material from the canal walls, perform crown sealing and restoration.

Important :

- BioActive RCS does not suffer setting contraction;
- BioActive RCS can be used, in addition to conventional techniques, in single-cone technique and thermoplastic filling;
- Use conventional gutta removal techniques.

Single-cone technique

1. Anesthetize, install absolute isolation and then perform the biomechanical preparation of the canal;
2. Remove the sealing tip and attach the applicator tip on the syringe;
3. Dry the canal only with absorbent paper cones without causing excessive dryness;
4. Apply BioActive RCS in the apical third of the canal directly with the syringe;
5. Insert the gutta percha cone;
6. X-ray for checking the correct filling of the canal;
7. Cut the cone at the desired height with heated instruments followed by vertical compression;
8. Remove excessive material from the canal walls with suitable irrigating solutions for this purpose, perform crown sealing and restoration.

PRESENTATION

Paste 3 gm in Syringe form

Ref. No. 004-01-003

STORAGE

- Keep the product in a dry ventilated place between 15 and 30 C.
- Do not store it in a refrigerator.
- Do not store the product near ammonia, ammonium nitrate and products containing chlorine. Avoid using disinfectant solutions that contain any of these ingredients.
- Product used exclusively by the dental surgeon.
- Use absolute isolation in all indication:
- Do not use **BioActive RCS** to fill canal without the gutta percha cones:
- The product is sensitive to moisture. So properly close the packaging with proper pressure to prevent dryness:
- Never store it in a refrigerator:
- Dry the canal with paper cones, but without excessively drying the canal: the moisture from the dentin tubules will initiate the material's setting reaction.
- Use the product only after controlling the infection, because at this stage the material's setting reaction does not occur due to the acidic pH in the area;
- Avoid causing excessive overflow of the product to the periapical region.
- After use, syringe must be kept inside aluminum self seal pouch. material may harden inside due to its stringent hygroscopic nature, so proper storage protocol must be followed.

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