

## 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.

#### CONTRAINDICTION

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.

#### MANUFACTURER

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**Not For Medicinal use, For use in Dentistry By Dental Professional only**

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