

Intended use

BioCeram Sealer is indicated for permanent root canal obturation in combination with gutta-percha points using lateral condensation technique, for root canal filling or direct pulp capping. BioCeram Sealer is designed for professional use in dentistry.

Features

BioCeram Sealer has long working time and high strength. The mechanical properties of the material are similar to the dentin. Thermally processed calcium silicate base promotes formation of hydroxyapatite on the line of connection of material and tooth's tissue leading to mineralization of root dentin structure. BioCeram Sealer has antimicrobial properties due to high pH level (at least 11), because of releasing of calcium hydroxide during setting process. This allows to skip a temporary obturation of the root canal with calcium hydroxide if treatment is performed in not acute stage of the inflammatory process. The material has high adhesion to dentin walls and gutta-percha points and does not shrink due to absence of resins and monomers in composition, providing hermetical sealing of root canal. Because of high hydrophilicity and optimal viscosity material creates optimal conditions for dentin tubules sealing due to possibility of distribution in the space of root canal, even filling areas, where it is impossible to achieve sufficient biomechanical preparation. The material is radiopaque due to the presence of zirconium oxide in composition. In case of retreatment, material can be easily removed from root canal. The composition of BioCeram Sealer guarantees absence of hypersensitivity and long-term stability in a post operation period. It can be used during pregnancy.

Indications

- Permanent root canal filling combined with a gutta-percha point or cold lateral condensation technique;
- Direct pulp capping.

Contraindications

Do not use BioCeram Sealer in patients with a known allergy to calcium silicate's compounds.

Precautions

Avoid contact of the paste with a skin or oral mucosa. In case of accidental contact, rinse the affected area with water. Use gloves and wear safety glasses using this product. Before application it is necessary to ensure that rubber dam is placed correctly and completely isolates operative site.

Side effects

None known if used according to intended purpose.

Directions For Use

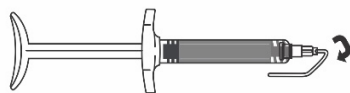
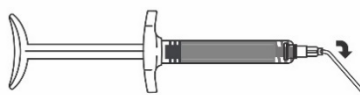
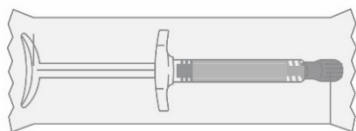
Perform cleaning and shaping of the root canal using standard endodontic techniques. After irrigating and disinfection dry the root canal, but do not over dry. Remember that the material hardens slowly in the presence of moisture, so the canal should be left slightly moist. Choose a standard gutta-percha cone and make sure that it fits tightly to the root canal walls through the whole length. Dry canal with a paper point. Remove the protective cap and dispense out a small amount of the material on the dry cloth or any dry surface. Make sure, that material did not become dry in the dispenser. Then put the tip on the dispenser. During dispensing make sure, that material comes out evenly. Insert the tip into the canal no deeper than the one third of root canal length. Dispense the material until it will reach the root canal orifice. Insert master cone to the apical stop. For better condensation of the material you can use ultrasound, holding the gutta-percha cone with a tweezer. There is a possibility of material extruding beyond root canal, due to the large amount of sealer and apical root resorption. In such circumstances the ultrasound should not be used. Evaluate the quality of root canal obturation, using X-ray. Cut off the protruding ends of the gutta-percha points with a heated tool.

Note: In case of very wide apical foramen opening, it is indicated to perform the apexification before root canal obturation.

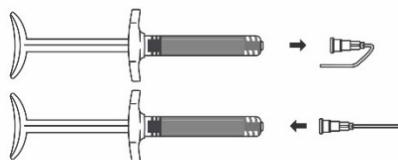
Storage

Store in a sealed container at temperatures from +4°C to +24°C and relative air humidity not more than 98% in a closed, dry place with natural ventilation.

Place the tip just before using, because material will harden upon contact with the air. During dispensing make sure, that material comes out from the tip evenly. After application bend or twist the tip without taking off a plastic part and leave it to the next use, as shown in the picture. The next time you use it just replace a tip with a new one, as shown in the picture.



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Manufacturer's warranty

Complying with the terms of application, storage and transportation manufacturer guarantees the quality of BioCeram Sealer before its expiration date.

Shelf life is 2 years.

After opening use the material within 2 months.

Developed and manufactured:

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