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Calcium Hydroxide-based radiopaque dental padding material

# Calcium-HX



## INSTRUCTIONS FOR USE

### PURPOSE

**DSI Calcium-HX** is a multi-purpose dental material. When mixed with deionized water or saline, achieves paste consistency and can be used as the dressing for apexification procedures, direct / indirect pulp capping and as a base liner under the restoration.

**Calcium-HX** powder contains highly dispersed extra pure calcium hydroxide, hydrophilic filler and radiopaque additives.

This material known for its disinfecting action. It also stops bone resorption and stimulates regenerative processes in the periapical tissues.

### INDICATIONS

**Calcium-HX** is especially recommended in cases of:

- Cavity liner for deep caries; stimulates the sedimentation of secondary dentine.
- Medical lining material for permanent fillings.
- Temporary antiseptic intra-canal bandage.
- Regeneration of the injured or inflamed pulp at different forms of pulpitis (injured, sharp, chronic fibrosis).
- Thermal insulation.

### DIRECTION FOR USE

**Mixing:** the recommended powder – liquid mixing ratio is 1:1 at 18-24°C and 40-60% R.H. (1 dosage spoon (0.1g) of powder with 3 drops (0.1g) of liquid).

The use of a clean dry, polished glass slab or paper pad and a stainless steel spatula is recommended. **Mixing time:** 1 min.

The material keeps its plasticity for 6-8 minutes.

*The possibility to control the consistency of the suspension obtained during mixing the powder with the chosen liquid is a major advantage of choosing it for endodontic use.*

**As the cavity liner:** Apply on the cavity, wash excess amount of a material, dry with the steam of compressed air. Isolate with a cement and proceed for the tooth crown restoration.

**For the pulp regeneration:** After the cavity formation, process with antiseptic solution (**DSI Chlor-EX**), dry, fill with the paste, dry with the compressed air and close with the cement (**DSI Zoer/Glass-FX**).

During the next visit in 2 weeks, in the absence of pain, the bandage can be removed, cavity is treated instrumentally and antiseptically, strong calcium insulating lining is applied, closed with glass-ionomer cement (**DSI Glass-FX**), following with the final tooth crown restoration. Monitoring X-ray survey is suggested in 3-6 months.

**For the root canal treatment:** After removing smear layer, widening and preparing the canals using **EDTA-17** liquid, and disinfection (**Chlor-EX** solution), the dry canal is filled with the **Calcium-HX** and hermetically sealed with **DSI-Temp** temporary material.

After 2 weeks, remove the material, rinse the canal with EDTA-17 liquid, and permanently fill the canal with gutta-percha, followed by the coronal restoration. Monitoring X-ray survey is suggested in 3-6 months.

## **CONTRAINDICATIONS**

If the conditions of correct storing, transporting and following the instructions, no adverse effects should appear.

## **STORAGE**

Store in a dry place (humidity < 50%) in tightly closed containers (+5°C...+30°C).

Always replace the bottle cap immediately after use.

Avoid contact with moisture and direct sunlight! Keep out of reach of children.

## **PACKAGING**

Powder (jar), mixing accessories.

10g	Ref: CALCIUM-HX
25g	Ref: CALCIUM-HX25



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*Failure to comply with the conditions of storage leads to a change of the working characteristics of the material and decrease the shelf life of the material.*

*The manufacturer is not responsible for any loss of quality caused by the failure to comply with terms of transportation, storage and use established by the manufacturer for this product. Responsibility for the use of the material for purposes other than those specified by the manufacturer falls on the user.*

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