

SmartMTA Capsule

FAST AND EASY PLACEMENT BIOCERAMIC
(for vital pulp therapy)



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SmartMTA is an ideal material for vital pulp therapy and root repair. It is ideal for one-visit treatment. SmartMTA contains no heavy metals and will not discolor after application.

SmartMTA Capsule root repair material is a powder consisting of fine, hydrophilic particles that set in the presence of water. Hydration of the powder creates a colloidal gel that solidifies to form a strong impermeable barrier.

- SmartMTA Capsule consists of fine hydraulic powder.
- SmartMTA Capsule starts to set when initiates the formation of Calcium Silicate layer.
- SmartMTA Capsule ex-vivo study shows strong alkali initially which then neutralizes to a biological pH.

USES

- For vital pulp therapy and repair on both deciduous and permanent teeth.

INDICATIONS

- SmartMTA Capsule is indicated for use as an orthograde root canal filling material, repair of root perforations during root canal therapy (endodontic therapy), or as a consequence of internal and external resorption, repair of root canals as an apical plug during apexification, root end filling, pulp capping, and pulpotomy/partial pulpotomy.

PREPARATIONS FOR USE

- Please check expiry date, foreign matter or impurity and transmuted or in irregular state before use.
- Please follow manufacturer's instructions.
- Pulp chamber should be adequately cleaned and hemostasis achieved before usage of material.
- Have a high-speed triturator and automix capsule applicator gun ready.

MIXING INSTRUCTIONS

1. Open the SmartMTA Capsule packaging.
2. Press the plunger on a hard and plane surface at the same level as the bottom of the capsule. Triturate immediately after activating.
3. Insert the capsule into an Amalgamator (env 4,300 vibrations/min.) or High Speed Capsule Mixer for 10 seconds.
4. After mixing, insert the SmartMTA immediately into the Capsule applicator. Capsules should be dispensed within 30 seconds of trituration.
5. Gently squeeze until the mixed SmartMTA is seen in the tip of the capsule. Note: When squeezed, the capsule may release a popping sound due to the air pressure inside the capsule.
6. For further details, follow the indications below.

STEP-BY-STEP DIRECTIONS FOR USE

1. Vital Pulpotomy

- a. Remove coronal pulp tissue.
- b. Disinfect and begin hemostasis with NaOCl or suitable alternative.
- c. Confirm hemostasis.
- d. Apply SmartMTA without excessive pressure.
- e. Begin restorative procedure.

2. Direct Pulp Cap

- a. Maintain moisture.
- b. Irrigate the area.
- c. Dry the area.
- d. Disinfect with NaOCl.
- e. Seal the perforation with SmartMTA.
- f. Consider glass ionomer base if placing a final restoration with moisture intolerant material prior to final set.

3. Indirect Pulp Cap/Base

- a. Maintain moisture.
- b. Irrigate the area.
- c. Dry the area.
- d. Apply SmartMTA to the floor of the preparation.
- e. Consider glass ionomer base if placing a final restoration with moisture intolerant material prior to final set.

PRECAUTIONS

- Avoid usage in patients with known hypersensitivity reactions.
- Must be stored in a dry area and keep sealed to avoid premature setting.
- Use SmartMTA only for the indications listed.
- Do not use after the expiration date on the box.

STORAGE METHODS

- Must be stored at room temperature.
- Avoid direct sunlight exposure.
- Do not refrigerate SmartMTA.

EXPIRATION DATE

- Following the correct storage methods, SmartMTA shelf life is two (2) years from the date of manufacture.

