

# SmartMTA

FAST SETTING BIOCERAMIC  
(for vital pulp therapy)



MTA by  
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SmartMTA is an ideal material for vital pulp therapy and root repair. With a setting time of 150 seconds and no washout, it is ideal for one-visit treatment. SmartMTA contains no heavy metals and will not discolor after application.

SmartMTA has a wide variety of clinical indications such as partial and complete pulpotomy for deciduous teeth, direct and indirect pulp capping, base formation, root repair and prevention of discoloration when used for tooth whitening procedures.

SmartMTA IFU-001 (Rev 0)

SmartMTA is bioregenerative and contains calcium zirconium aluminate powder. SmartMTA has excellent sealability for bacterial entombment and fossilization. SmartMTA is bacteriocidal with an initial pH of 12.5 and subsequent neutralization.

## USES

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

## INDICATIONS

- Vital pulpotomy, indirect and direct pulp cap, base, external and internal resorption, apexification, and orthograde filling.

## PREPARATIONS FOR USE

- Use a glass slab and plastic spatula for ideal mixing.
- Material can be carried to the restorative site via amalgam carrier or composite placement instrument.
- Follow manufacturer's directions listed below.

## HYDRATING/MIXING INSTRUCTIONS

1. Open the SmartMTA vial and cut off the distilled water pipette.
2. Empty the powder from the vial on a glass slab and add (2) drops of liquid.
3. Completely wet the powder with a plastic spatula – DO NOT OVERMIX.
4. Wait until the shiny surface disappears (approximately 40 seconds), then load the carrier and apply SmartMTA to the restorative site.
5. Adapt and apply gentle pressure with a moist cotton pellet.

## 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. Wait 150 seconds to 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 or keep it 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 three (3) years from the date of manufacture.



1. Open the SmartMTA vial and cut off the tip of the pipette.



2. Empty the 0.2g of powder into a compact pile on the glass slab.



3. Add two (2) drops of water to the powder.



4. Completely wet the powder with a plastic spatula.



5. Wait until the shiny surface disappears (approximately 40 seconds), then load the carrier.