

QualiSense MTA U - Handmix Endodontic Repair Cement

Recommendation for Use

1. Indications

- Repair of root perforations during root canal therapy
- Root end filling (retrograde)
- Pulp capping
- Root end filling (orthograde)

2. Contraindications

Not known

3. Side effects

Not known

4. Dispensing and Mixing

The powder/liquid ratio is 2.6/1.0. This can be obtained by mixing **1 level (blue) scoop of powder and 2 drops of liquid**.

If a thinner or firmer consistency is desired, the mixing ration can be modified slightly:

Mixing ratio (by weight)	2:1	2,6:1	3:1
Working time (at 23 °C/74 °F)	3:00 min	2:00 min	1:00 min

For root end filling (orthograde) (see 5.4) the recommended mixing ratio is 2:1 (by weight). This can be obtained by mixing **3 level (blue) scoops of powder and 8 drops of liquid**. The mixed material gives a sufficient amount for apexification that can be applied optimally with a suitable application device into the root canal.

For mixing of MTA U use a mixing pad that is impervious to water or a glass block of suitable dimension.

For accurate dispensing of MTA U powder shake the bottle to loosen the powder. Overfill the spoon with the powder, level the powder with the mixing spatula and carry it onto the mixing pad.

For dispensing of MTA U liquid turn the bottle vertically with the tip about 5cm above the mixing pad. Steady your hand and squeeze the bottle gently to dispense one drop at a time. If any bubbles are present, lightly tap the bottle with the fingers holding it. Discard under-sized drops that contain bubbles and are obviously not full-sized. Discard over-sized drops, usually resulting from holding the bottle too close to the mixing pad or squeezing the bottle too hard and/or for too long.

Use a small spatula to rapidly mix all the cement powder in portions into the liquid. The mixed cement should be thixotropic and have a homogeneous consistency. Total mixing time is **30 seconds**.

If desired, a more rigid consistency can be achieved by adding some more powder to the mixture, a more creamy consistency is attained by adding some liquid.

After use, tightly close both liquid and powder bottles to prevent exposure to moisture.

5. Application

5.1. Repair of root perforations

Place rubber dam and clean the root canal system using intra-canal instruments and irrigate with NaOCl. Dry the root canal with paper points and isolate the perforation.

Fill the apical canal space up to the perforation completely with a suitable root canal filling material.

Mix MTA U as described under point 4.

Apply MTA U with suitable instruments into the perforation site and condense it.

Check the position of MTA U in the root canal by an X-ray. If an adequate barrier has not been created, rinse MTA U out of the canal and repeat the procedure.

Remove excess moisture with a damp cotton pellet or a paper point.

Place a damp cotton pellet in the access to the root canal and apply a temporary filling material.

Alternatively seal the access preparation with a suitable root canal filling material and seal the cavity with a tight filling.

Both options can be done not before **5 minutes** after placement of the MTA U.

MTA U repair material remains as a permanent part of the root canal filling.

5.2. Root End Filling (retrograde)

Create an access to the root-end and resect the root with a surgical bur.

Use an ultrasonic tip to prepare a class I root-end cavity preparation to a depth of 3-5 mm.

Isolate the area and dry the root end cavity with paper points. Achieve hemostasis with suitable methods.

Mix MTA U as described under point 4.

Apply MTA U with suitable instruments and condense it using a small plugger.

Remove excess cement and clean the surface of the root with a moist piece of gauze.

Confirm placement of the MTA U repair material with an X-ray. The MTA U repair material remains as a permanent part of the root canal filling.

5.3. Pulp Capping

Place rubber dam and prepare the cavity outline. If caries is present, remove it. Rinse cavity and exposed pulpal areas with a suitable disinfectant.

Mix MTA U as described under point 4.

With a suitable instrument apply a small amount of MTA U over the exposed pulp and remove excess moisture with a dry cotton pellet.

Not before **5 minutes** after application of MTA U place a small amount of a flowable light cure liner (e.g. GI LINER) and light cure.

Etch the remaining cavity walls according to the total-etch-technique with ETCHING GEL and apply a suitable bonding agent (e.g. ADHESIVE T1) according to the corresponding instructions.

Place a light cure composite (e.g. NANOHYBRID) according to the instructions and light cure.

Pulp vitality and status should be checked by X-ray at regular intervals.

5.4. Root End Filling (orthograde)

Place rubber dam and clean the root canal system using intra-canal instruments and irrigate with NaOCl. Dry the root canal with paper points.

For disinfection place calcium hydroxide paste in the root canal for one week. Seal the access opening with a temporary filling material.

Mix MTA U as described under point 4.

With a suitable instrument apply a small amount of MTA U into the apical region and condense it. Create a **3 – 5 mm** barrier of MTA U.

Check the position of MTA U by an X-ray. If an adequate barrier has not been created, rinse MTA U out of the canal and repeat the procedure.

Remove excess moisture with a damp cotton pellet or a paper point.

Place a damp cotton pellet in the access to the root canal and apply a temporary filling material.

Alternatively seal the access preparation with a suitable root canal filling material and seal the cavity with a tight filling.

Both options can be done not before **5 minutes** after placement of the MTA U.

MTA U repair material remains as a permanent part of the root canal filling.

Additional remarks

- In the first hour after application handle the placed MTA cement carefully.
- Intraoral application of MTA U must be done immediately after mixing to prevent dehydration during setting.
- MTA U can cause discoloration. Use MTA U only in the root canal and/or the pulp chamber.

Storage

Store MTA U at a dry place at 10 – 25 °C (50 °F – 77 °F).

Do not store below 10°C (50 °C)!

Do not use after expiry date.

Warranty

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