

Harvard MTA XR – OptiCaps®
Endodontic repair cement

Harvard MTA XR is an endodontic repair cement in OptiCaps®. Due to its firm consistency in combination with a comfortable setting time Harvard MTA XR is the ideal choice for repair of root perforations. Harvard MTA XR powder consists of very fine hydrophilic particles of several hydraulic mineral oxides. After contact with Harvard MTA XR liquid it forms a gel that hardens to an impermeable barrier.

Harvard MTA XR is delivered in OptiCaps®. OptiCaps® are easily activated and the content of the capsule is easily ejected out with the capsule applicator. Capsule mixing (mixing time 30 seconds) is achieved by a high frequency mixer with about 4,300 oscillations/min such as Capmix.

1. Indications

- Repair of root perforations during root canal therapy
- Root-end fillings
- Pulp capping
- Repair of root canals as an apical plug during apexification

2. Contraindications

Not known

3. Side effects

Not known

4. Activation and Mixing (see Instruction for OptiCaps®)

Activate and mix the OptiCaps® according to the information in the instructions.

Mixing time for the OptiCaps® is 30 seconds.

Attention:

Avoid lag times between the processes of activation, mixing and application as the material is in the process of setting and lag times may impair or prevent application of the material. The material must be extruded within 10 seconds after the end of mix. To prevent dehydration during setting, apply Harvard MTA XR intraoral immediately after mixing.

Working time of Harvard MTA XR is 2:00 minutes from start of mixing (at 23 °C (74 °F)).

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 Harvard MTA XR as described under point 4 and extrude it on a glass plate.

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

Check the position of Harvard MTA XR in the root canal by an X-ray. If an adequate barrier has not been created, rinse Harvard MTA XR 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 Harvard MTA XR.

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

5.2. Root-End Filling

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 Harvard MTA XR as described under point 4 and extrude it on a glass plate.

Apply Harvard MTA XR 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-repair material with an X-ray. The Harvard MTA XR 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 Harvard MTA XR as described under point 4 and extrude it on a glass plate.

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

Not before 5 minutes after application of Harvard MTA XR place a small amount of a flowable light cure liner (e.g. Harvard IonoLine) and light cure.

Etch the remaining cavity walls according to the total-etch-technique with Harvard Etch and apply a suitable bonding agent (e.g. Harvard Bond TE Mono) according to the corresponding instructions.

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

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

5.4. Apexification

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 Harvard MTA XR as described under point 4 and extrude it on a glass plate.

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

Check the position of Harvard MTA XR by an X-ray. If an adequate barrier has not been created, rinse Harvard MTA XR 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 Harvard MTA XR.

Harvard MTA XR 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.
- Store Harvard MTA XR in the sealed packaging in a dry place prior to use.
- Intraoral application of Harvard MTA XR must be done immediately after mixing to prevent dehydration during setting.
- Harvard MTA XR can cause discoloration. Use Harvard MTA XR only in the root canal and/or the pulp chamber.

Storage

Store Harvard MTA XR in a dry place at 2-25 °C (36-77 °F). Do not use after expiry date.

OptiCaps® are for single use only.

Warranty

Harvard Dental International GmbH warrants this product will be free from defects in material and manufacture. Harvard Dental International makes no other warranties including any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your exclusive remedy and Harvard Dental International's sole obligation shall be repair or replacement of the Harvard Dental International product.

Limitation of Liability

Except where prohibited by law, Harvard Dental International GmbH will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

Only for dental use!
Store product out of reach of children!

The instructions for use has to be kept for the duration of the application.

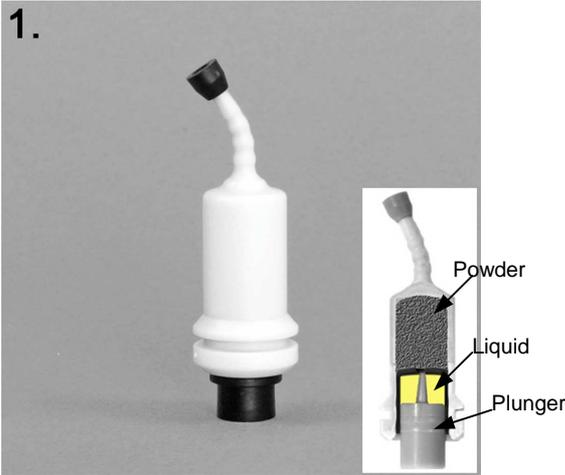
Order-No. Article

7081505 Harvard MTA XR, 2 x OptiCaps® à 0,25g

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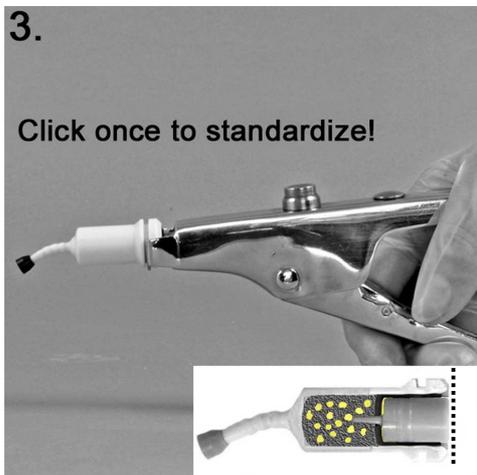
Instruction for activating and mixing Harvard MTA OptiCaps®



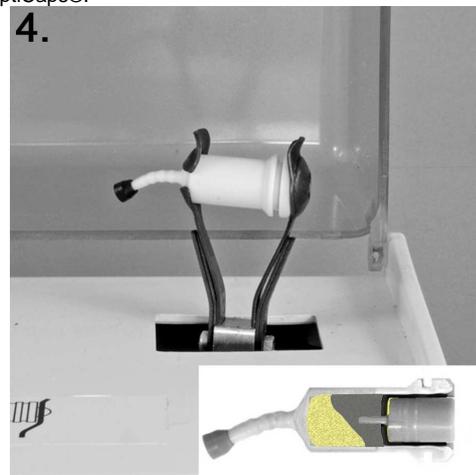
Harvard MTA OptiCaps® before activation.



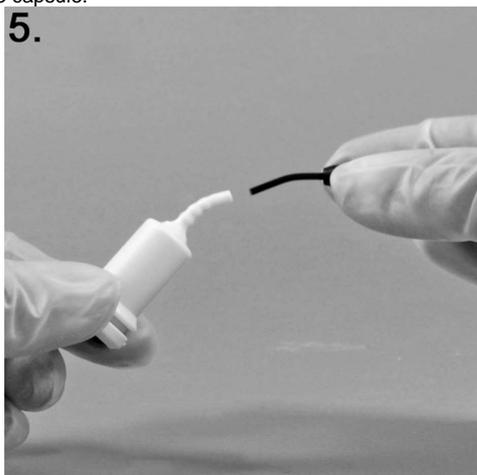
For activation of the Harvard MTA OptiCaps® press the plunger on a hard and plane surface to the end into the Harvard MTA OptiCaps®.



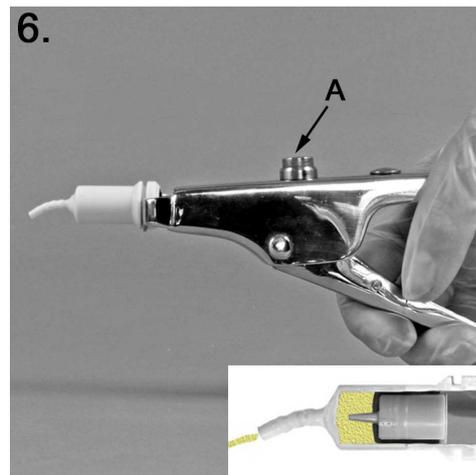
Insert the Harvard MTA OptiCaps® into the capsule applicator and **click once** to standardize.
Note: The plunger must be at the same level as the bottom of the capsule.



Insert the Harvard MTA OptiCaps® into a mixer (or an amalgamator), close lid and mix immediately for 30 seconds (about 4300 oscillations / min).



Remove the pin from the nozzle. If not, capsule can burst.



Insert the Harvard MTA OptiCaps® into the capsule applicator. Pull the lever 2 times (2 clicks) to prime the Harvard MTA OptiCaps®. Extrude the mixed material on a glass plate and apply directly. Unlock the gun (push button A) and remove the Harvard MTA OptiCaps®.
Only with the Harvard capsule applicator (Order.-No. 7092000) the optimal amount of mixed material is guaranteed.

For the selection of a suitable capsule mixer, our sales and marketing colleagues are gladly available to you.