



Harvard MTA Universal

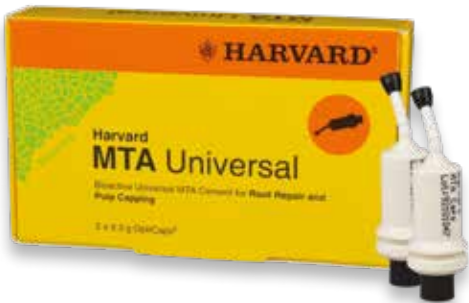
Endodontic bioactive repair cement based on diverse mineral oxides

(Mineral-Trioxide-Aggregat)

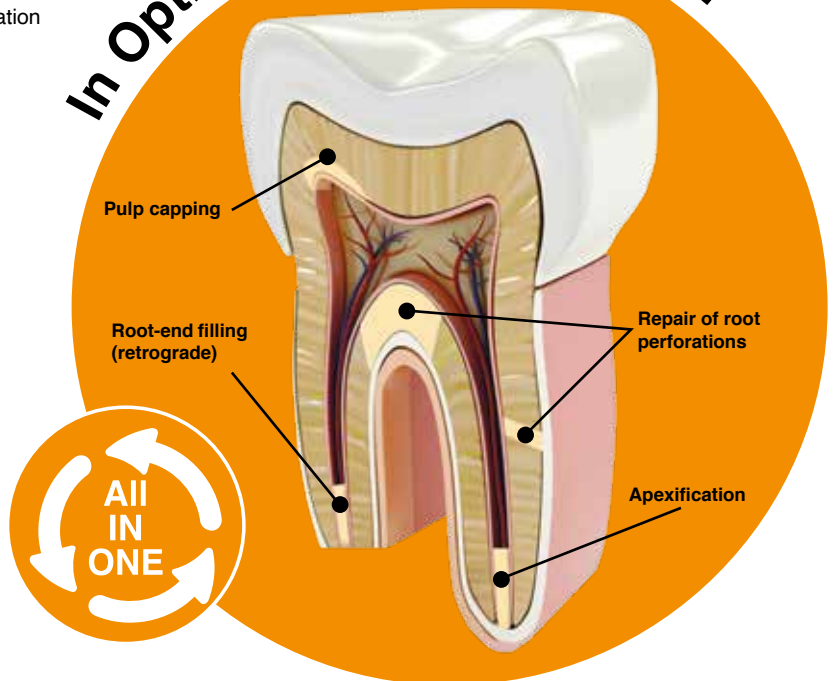


Properties

- **Highly biocompatible material**
- Formation of tertiary dentin over the pulp ("dentin bridge")
- Formation of a protective layer preventing bacterial penetration with the formation of calcium hydroxid and apatite
- Excellent bond to dentin
- Dimensional stability (no shrinkage)
- Excellent seal
- **Comfortable application** with guttapercha and other root canal sealers
- Setting not affected by humidity
- Bacteriostatic with its high pH-value
- Radiopaque, easy readable at radiographs
- **Next clinical step possible after 5 min**



In OptiCaps® or as HandMix.



Indications

- Repair of root perforations
- Root-end filling (retrograde)
- Apexification / orthograde root-end filling
- Direct and indirect pulp capping
- Repair of internal resorption
- Pulpotomy



Advantages of powder / liquid

- Flexible and economical.
- Adapt the consistency based on the procedure.
- Can easily be mixed to a nice creamy consistency.

Advantages of OptiCaps®

- Easy handling and reproducible.
- Nice creamy consistency: fast and consistent.

Technical Data

Mixing ratio

Powder / liquid (by weight) 2 / 1 2.6 / 1 3 / 1

Working time

(23 °C / 73 °F) 3 min 2 min 1 min

Next clinical step after

5 min 5 min 5 min

Technical Data

Mixing time

(23 °C / 73 °F) 30 sec

Working time

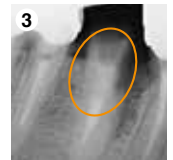
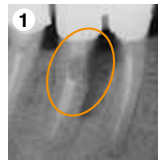
(23 °C / 73 °F) 2 min

Next clinical step after

5 min



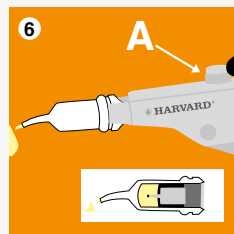
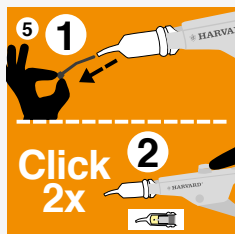
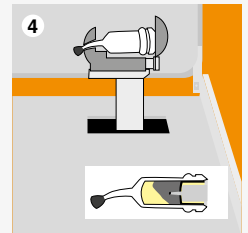
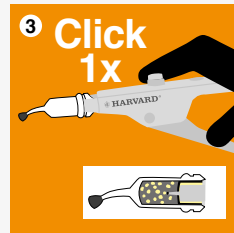
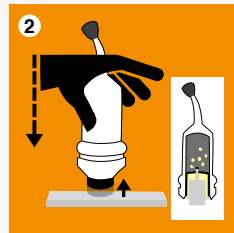
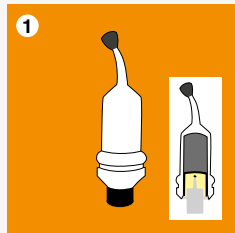
Due to MTA, good long term prognosis.



- 1. Initial situation:** Damaged root canal wall and demineralized bone.
- 2. After treatment:** Root canal perforation sealed with Harvard MTA Universal.
- 3. After one year:** Perfect seal of the application areas.
New remineralized bone and better retention of the tooth.

Click before you mix.

Instructions for activating and mixing Harvard OptiCaps®



1. OptiCaps® before activation.
2. Activation: press the plunger to the end into the capsule.
3. Insert the OptiCaps® into the applicator and click once to standardize.
4. Mix the OptiCaps®.
5. Insert the OptiCaps® into the applicator. Remove the pin. Pull the lever twice (2 clicks) to prime the OptiCaps®.
6. Unlock the gun (push button A) and remove the OptiCaps®.

Order information:

Harvard MTA Universal OptiCaps®	
2 OptiCaps® ea. 0.3 g, ea. packed in an aluminum pouch	7081502
Harvard Applier OptiCaps®	7092000

Harvard MTA Universal HandMix	
1 g powder, 3 ml liquid, dosage spoon, mixing pad, spatula	7081507
2 g powder, 4 ml liquid, dosage spoon, mixing pad, spatula	7081508

Harvard Distribution Partner.

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HARVARD®

Marke und Qualität seit 1892

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