

MTA

from  **angelus**
science and technology

FOR EFFICIENT ENDODONTIC REPAIR...

Listen to the literature.

"An ideal endodontic repair material should seal the pathways of communication between the root canal system and its surrounding tissues. In addition, it should be nontoxic, noncarcinogenic, nongenotoxic, biocompatible, insoluble in tissue fluids, and dimensionally stable".

Make your choice

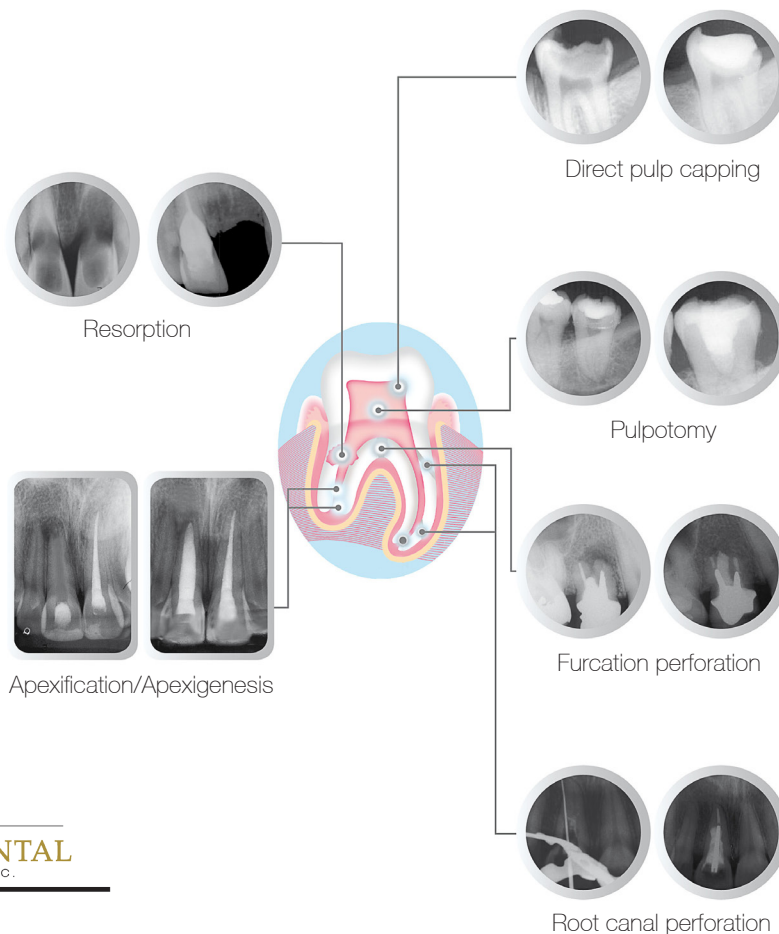
Unique among endodontic restorative materials, MTA Angelus Reparative Cement meets all the above requirements and more. With a calcium hydroxide containing formula for incomparable biological healing, MTA Angelus also exhibits excellent handling properties, sealing capability, radiopacity, high alkalinity, low solubility, complete biocompatibility and clinically acceptable compressive strength.

But, here's what makes it efficient above its competitors:

Faster set time: With a 10-15 minute* setting time, MTA Angelus is the ideal product for procedures such as direct pulp capping and pulp exposure repair.

Easily apportioned and mixed: MTA Angelus is purposely packaged to make the material far more cost-effective than other commercially available MTA, with little or no wasted product. Simply mix one scoop with one drop of distilled water. When mixed in this way, a 1g bottle of MTA is sufficient for 7 uses.

On the world market since 2001 and largely used in Europe for more than 5 years, MTA Angelus is scientifically and clinically proven in numerous international dental journals, in several University endodontic programs all over the world, as well as its use by many skilled international clinicians. A compendium of scientific article abstracts is available upon request.



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MTA Angelus: the what, why and how

Setting times	Initial, approximately 10 minutes; final, 15 minutes. Shorter time ideal for certain procedures such as pulp capping
Presence of calcium hydroxide	Promotes the formation of a dentin barrier when applied directly on the pulp and, in cases of root canal lateral and furcation perforations, it promotes the formation of root cementum and incomparable biological healing.
Radiopacity	Similar to gutta-percha. More radiopaque than dentine and bone.
Sealing	In vitro sealing capacity of MTA-Angelus was evaluated through dye filtering and, as a result, very small penetration was verified. As bacteria have larger dimensions than dye molecules, in vivo results are even better.
Easy handling	MTA Angelus can be used in highly humid sites and still maintain its properties. It differs from other materials that require a completely dry surgical field, which is generally difficult to obtain, especially in cases of periapical surgery.
High Alkalinity	After mixing, pH value is 10; in 3 hours it becomes highly alkaline, 12, which prevents bacterial growth and maintains a long lasting bactericidal potential.
Solubility	Very low solubility in contact with humidity, assuring an excellent marginal sealing.
Biocompatibility	MTA Angelus is completely biocompatible; in case it contacts the periodontium it is resorbed in 3 months.
Compressive Strength	40 MPa after 24 hours and 65 MPa after 21 days. Completely acceptable, considering that sites of application do not receive direct occlusal load

MTA delivery instruments

Dovgan MTA Carriers

Designed specifically for delivery of MTA, Dovgan MTA carriers come in 3 sizes (1.6, .99 and .8 external diameters) and feature a NiTi plunger as well as a removable luer lock lumen that can be easily removed for cleaning or replacement if damaged or clogged.



Lee MTA pellet forming block

(Designed by Dr. Ed Lee, San Francisco, CA, USA)
When the carrier and syringe-type devices used to deliver MTA prove to be too difficult to use because of the location of the surgical or perforation site and the small size of the preparation, the Lee MTA instrument and block is an excellent, clinically proven solution. The block is designed with precision grooves for the formation of a perfect MTA pellet, which is then easily carried from the block to treatment site via the Lee MTA carver.



Lee MTA Block



Lee MTA Carver

Ordering Codes

85082#	MTA Root Canal Repairing Kit (1g MTA, 3ml distilled water, 1 scoop MTA Root Canal Repairing) White or Grey
850821	MTA Root Canal Repairing Kit (2g MTA, 3ml distilled water, 1 scoop MTA Root Canal Repairing) Grey
850824	MTA 0.28g (2 sachets), 3ml distilled water (White)
8551##	Dovgan MTA Carrier .80mm, .99mm, 1.6mm
855002	Lee MTA Carver
855001	Lee MTA Block



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¹ Masoud Parirokh, DMD, MS, and Mahmoud Torabinejad, DMD, MSD, PhD. Mineral Trioxide Aggregate: A Comprehensive Literature Review—Part III: Clinical Applications, Drawbacks, and Mechanism of Action. JOE — Volume 36, Number 3, March 2010

² Torabinejad M, Pitt Ford TR. Root end filling materials: a review. Endod Dent Traumatol 1996;12:161–78.

³ Johannes Mente, DMD, Beate Geletneky, DMD, Marc Ohle, Martin Jean Koch, MD, DMD, PhD, Paul Georg Friedrich Ding, DMD, DianaWolff, DMD, Jens Dreyhaupt, DSc, Nicolas Martin, BDS, PhD, FDS, Hans Joerg Staehle, MD, DMD, PhD, and Thorsten Pfeifferle, DMD. Mineral Trioxide Aggregate or Calcium Hydroxide Direct Pulp Capping: An Analysis of the Clinical Treatment Outcome. JOE — Volume 36, Number 5, May 2010.

⁴ Lee, E. A New Mineral Trioxide Aggregate Root-End Filling Technique. JOE - VOL. 26, NO. 12, DECEMBER 2000