

# For the Confidence of 4 Million Successful Cases, TRUST THE FIRST NAME IN ROOT REPAIR



# There's Only One Original

When it comes to root repair, trust the original MTA. ProRoot® MTA is compositionally formulated to have the physical properties, setting requirements and characteristics necessary for a clinically effective root repair material. It creates an excellent seal that promotes a normal healing response within the root so you can have confidence that your procedure will succeed, and fewer retreatment procedures will be necessary. And its ease of manipulation allows you to tailor its consistency to suit your clinical needs. One use of ProRoot MTA and it's clear why countless clinicians still trust the first name in root repair.

# Proven by Scientific Research



As this chart shows, root repairs with ProRoot MTA result in smaller root gap between the rootend filling material and the dentinal wall.<sup>6</sup>

Median Time of Bacterial Leakage		
of Various Root-End Filling Materials. <sup>7</sup>		

Material	Number of Days
Amalgam	28.5
Super EBA	34.5
IRM	15.0
ProRoot® MTA	90.0

The median time of bacterial leakage was far greater in root repairs performed with ProRoot MTA than with using other materials.<sup>2</sup>

To reduce the risk of bacterial infection, you need a root repair material that seals off pathways of communication between the root canal system and surrounding tissue. ProRoot® MTA outperforms other materials in this area by creating a stable barrier to bacterial and fluid leakage.

In dye leakage experiments, ProRoot MTA has been shown to allow significantly less dye leakage and have better marginal adaptation than other materials including Amalgam, Super EBA cement and Intermediate Restorative Material.<sup>1,2</sup> Several studies also demonstrated that ProRoot MTA allowed less bacterial migration compared to other root repair materials.<sup>3,4</sup>

## Biocompatible for a good clinical response.

ProRoot MTA exhibits excellent biocompatibility in communication with vital tissues.<sup>4</sup> This allows for a normal healing response that even stimulates the formation of new cementum over the restored root interface.<sup>1,5</sup>

## Sets in the presence of moisture.

The water-based chemistry of ProRoot MTA renders moisture contamination a non-issue. In the clinical environment where complete removal of moisture is not always possible, a material that sets in the presence of moisture is necessary to avoid contamination and achieve long-term clinical success.

Parirokh M, Torabinejad M. Mineral trioxide aggregate: a comprehensive literature review - Part III: clinical applications, drawbacks, and mechanism of action. J Endod 2010:36:400-413

- Torabinejad M, Lemon R. Use of MTSA as root perforation repair. In Torabinejad, M. Mineral Trioxide Aggregate: Properties and Clinical Applications. Wiley Blackwell, Ames, lowa 2014.
- <sup>4</sup> Torabinejad M, Parirokh M. Mineral trioxide aggregate: a comprehensive literature review Part II: leakage and biocompatibilly investigations. J Endod 2010;36:190-202.

- mineral trioxide aggregate: a randomized controlled trial. Int Endod J 2008;41:128-150
- Zhaofei L, Cao L, Fan M, Xu Q. Direct pulp capping with calcium hydroxide or mineral trioxide aggregate: a meta-analysis. J Endod 2015;41:1412-1417. <sup>o</sup>Sushynski JM et al. Comparison of gray mineral trioxide aggregate and diluted formocreosol in pulpotomized primary molars: a 6- to 24-month observation. Pediatric Dent

# Indicated Uses for ProRoot® MTA

Because of it's unique features and benefits, ProRoot MTA offers distinct advantages over other materials for these root canal repair procedures in primary and permanent teeth.

### Pulp Capping

Clinical research indicates that ProRoot MTA is an effective pulp capping material.<sup>8,9</sup> When gently placed over the pulpal exposure site, it creates a biocompatible sealing of the pulp.The no shadow formula is the ideal shade for this procedure.

### Now Cleared for Pediatric Pulpotomies

In addition to the numerous ways ProRoot MTA has helped to repair roots for years, the material is now cleared by the FDA for use in pediatric pulpotomy cases.<sup>10,11,12,13</sup> Because ProRoot MTA creates a biocompatible seal, it is ideal for replacing pulp in the chamber to prevent infection from reaching the roots.



ProRoot MTA material being mixed on pad.

# The Right Mix, Every Time

Each packet of ProRoot<sup>®</sup> MTA comes with a premeasured unit dose of purified water for fast preparation. Once the material is mixed, it quickly reaches a working consistency for efficient application.

Try out ProRoot MTA with the ProRoot MTA Delivery System that makes achieving the material's predictable results even faster and easier with improved material handling and more precise placement.

## The Proof is the Pictures

These radiographs show a strip perforation in a lower molar successfully treated with ProRoot MTA. Figure A shows the canal before treatment; Figure B depicts the same canal after two years. The lower molar mesial root furcal perforation was repaired

with ProRoot MTA demonstrating a dense, well-contoured repair with excellent healing and near normal appearance after two years.



# Order Information

ProRoot MTA is available in 2 shades (white and gray) and in 1/2-Gram and 1-Gram size treatment boxes so you can choose just the right product for your needs. For more product information or to place an order call our customer service specialists at 1-800-662-1202 or visit us online at www. tulsadentalspecialties.com.

Product	SKU #
ProRoot <sup>®</sup> MTA White Delivery System [Contents include: 5 1-gram treatments of ProRoot MTA material, 6 ampoules ProRoot MTA water, 6 mixing sticks, 4 carriers (1 nonsurgical, 3 surgical), 10 carrier sleeves, 1 Instructional DVD, 1 Tip Card)	PRMANSYSW
ProRoot® MTA ½-Gram Refill Kit – White (10 ½-Gram Treatments)	PROROOT5W
ProRoot® MTA 1-Gram Refill Kit – Gray (5 1-Gram Treatments)	PRCEM
ProRoot® MTA Manual Carrier – Surgical Left	PRMSURL
ProRoot® MTA Manual Carrier – Nonsurgical	PRMNS

1-800-662-1202 For the latest information consult www.TulsaDentalSpecialties.com



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