

## Premixed Injectable MTA

# **ENDOCEM MTA** Premixed Regular

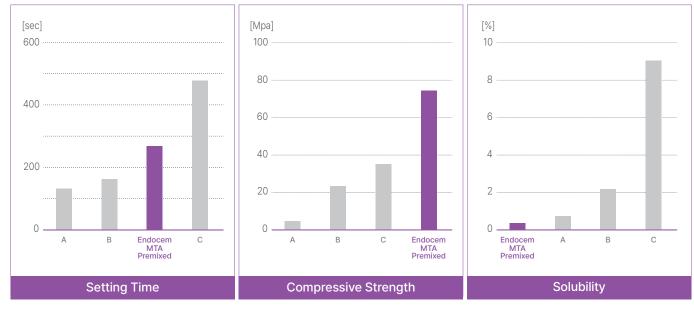
CC 0101 CANAR DE PROVINCE

# **Key Features**

### **1. Excellent Properties and Strong Hemostatic Effect**

Based on pure tricalcium silicate, it boasts superior physical properties compared to traditional powder form MTA. Additionally, the phyllosilicate component provides a strong hemostatic effect and suppresses excessive shrinkage during the hardening process.

Materials	Setting time(seconds) (n=3)	Solubility(%) (n=3)	Compressive strength(Mpa) (n=5)
А	146.67 ± 5.77	2.17 ± 0.07	38.17 + 2.50
В	123.33 ± 5.77	0.55 ± 0.03	4.07 ± 0.60
С	460.00 ± 17.32	9.01 ± 0.55	38.39 ± 7.25
Endocem MTA Premixed Regular	260.00 ± 17.32	0.17 ± 0.03	76.67 ± 25.67



\*Ref. Yuji Jang et al, JKAPD. 2023.50.2.217

#### 2. Maximized Biocompatibility

Endocem MTA\* has selected Dimethyl sulfoxide as a vehicle to maximize biocompatibility. Moreover, the Endocem MTA securely seals not only exposed dentin tissue but also surrounding dentinal tubules.

\* European Patent Nos 3542778



### 3. Effective Stimulation Blocking and Excellent Sealing Ability

Endocem MTA\* provides strong sealing properties, effectively blocking stimulation and sealing not only exposed pulp tissue but also the surrounding dentinal tubules. Its sub-micron structure allows for versatile applications, making it particularly effective for perforation repairs.



#### 4. Completed Clinical Evaluation

This study indicate that the Endocem MTA\* is a viable alternative to ProRoot MTA for single-visit pulpotomies of permanent premolars and molars.

Variables		Total N=71	Treatment success			
			Success		Failure	
Overall		71	67	94.4	4	5.6
Material	ProRoot MTA	37	34	93.9	3	6.1
watefia	Endocem MTA*	34	33	97.1	1	2.9

\*Ref. Sin-Yeon Cho et al, Scientific Report 2994 (2024)

\* This table is based on specific data and results selected from the original paper.

## **Applicational Precautions**

#### STEP. 01

Apply Endocem MTA\* in an appropriate thickness. (1-3mm)

#### STEP. 02

Apply a wet cotton pellet on top of Endocem MTA\*, allowing the solvent and water to exchange, initiating the setting process.

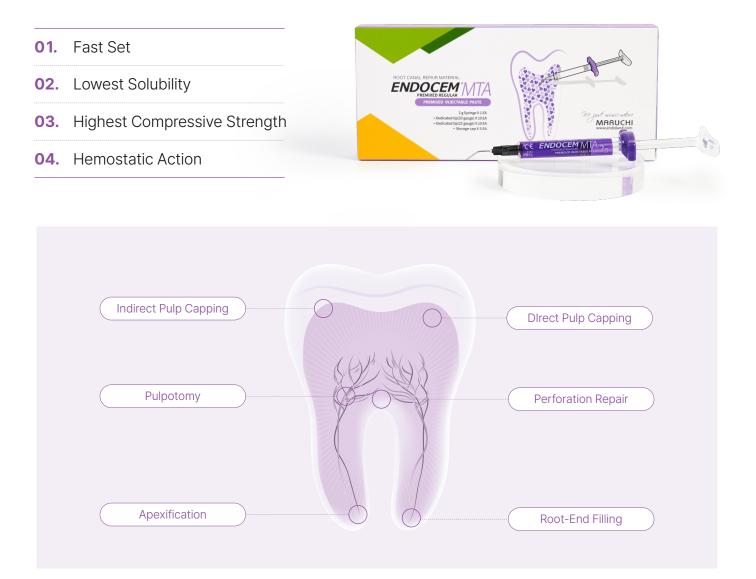
#### STEP. 03

After 3-5 minutes, gently condense by lightly tapping with a wet cotton pellet, then proceed with routine treatment.

\* Endocem MTA Premixed Regular is shortened to 'Endocem MTA'

# Pure C3S-based Premixed Injectable MTA

Through the combination of Synthetic Pure Tricalcium Silicate, Dimethyl Sulfoxide, and Lithium Carbonate, our product offers excellent properties, biocompatibility, and aesthetics simultaneously. Provided in a paste form, it is the most economical MTA with significantly lower consumption compared to traditional powder forms, allowing for easy and efficient root canal treatment.



### Composition

Tricalcium Silicate, Zirconium Dioxide, Dimethyl Sulfoxide, Calcium Aluminate, Calcium Sulfate, Lithium Carbonate, Thickening Agents.



Tel +82-33-734-0330 Fax +82-33-746-2804 info@endocem.com 101, Donghwagongdan-ro, Munmak-eup, Wonju-si, Gangwon-do, 26365, Republic of Korea 강원도 원주시 문막읍 동화공단로 101