

One-Fil 제품군 개요

	One-Fil	One-Fil Putty Injectable	One-Fil Putty
적응증	근관실링	근관 치수절단술 천공봉쇄술 치근단형성술	간접치수복조술 직접치수복조술 치근단절제술 치근단충전 재식술
pH	13	12	12
경화시간	< 3.5시간	< 5분 (초기)	< 5분 (초기)
흐름성 [mm]	26	-	-
용해도 [%]	< 1	< 1	< 1
방사선불투과성 [mmAl]	9	10	10
비급여코드	-	BL7600MD	BL7601MD

VIDEO



One-Fil



One-Fil Line



임상적용

SCI 논문



One-Fil



One-Fil Putty



Hi-Bond Universal



(주)메디클러스

청주본사 : 충북 청주시 흥덕구 공단로 134, 1210호
전화 : 043-211-2877
영업본부 : 서울 중구 청파로 464 브라운스톤 206호
전화 : 010-6416-2877

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KRBR250310 V1

칼슘 실리케이트 기반의
바이오세라믹



칼슘 실리케이트 바이오세라믹
근관실러



제품구성 :
508-1 One-Fil 2g x 1 Syringe

칼슘 실리케이트 바이오세라믹
퍼티 인젝터블



제품구성 :
509-1 One-Fil Putty Injectable 0.5g x 4 Syringes

칼슘 실리케이트 바이오세라믹
퍼티



제품구성 :
509-2 One-Fil Putty 0.25g x 4 Syringes

높은 방사선불투과성

항균효과

< 3.5h icon"/>

경화시간

우수한 봉쇄

우수한 젖음성

생체친화성

과학논문

Australian Endodontic Journal
The Journal of the Australian Society of Endodontology Inc,
the Australian and New Zealand Academy of Endodontists and
the Asian Pacific Endodontic Confederation

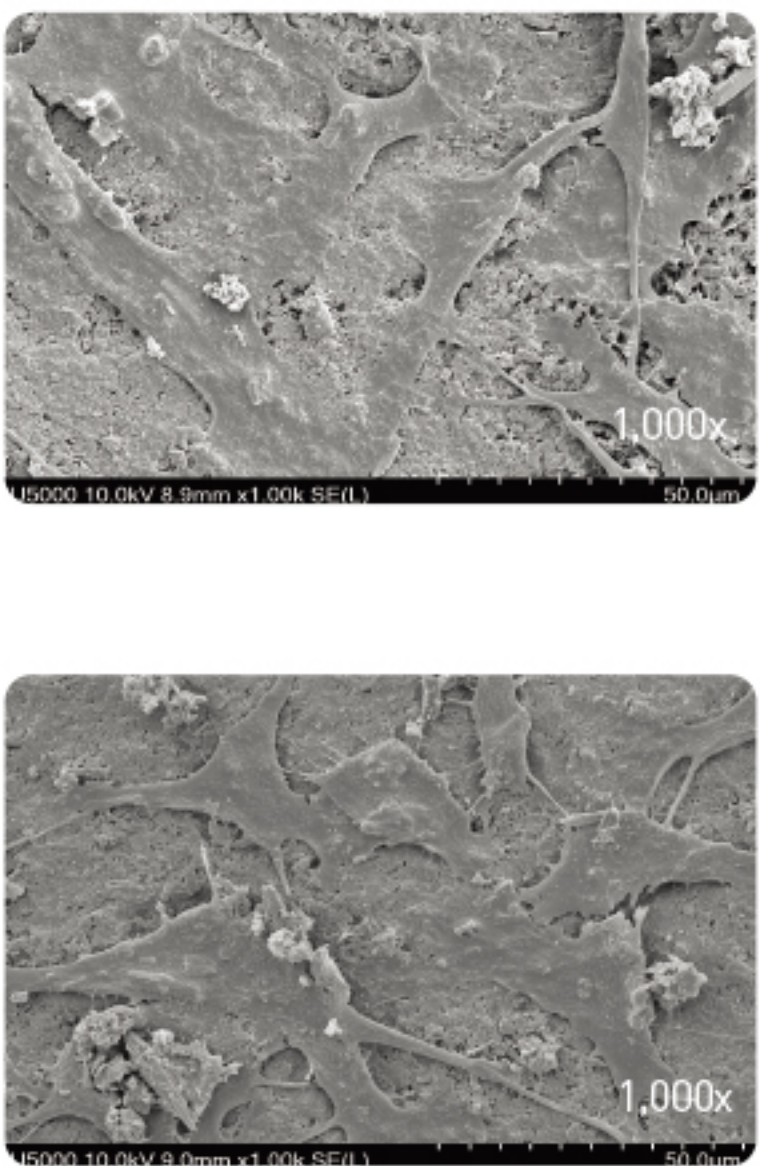
Aust Endod J 2021

ORIGINAL RESEARCH

Physicochemical properties and cytocompatibility of newly developed calcium silicate-based sealers

Min-Gyu Park, DDS¹; In-Ryoung Kim, PhD^{2,3}; Hyung Joon Kim, PhD^{4,5}; Sang Won Kwak, DDS, MS, PhD^{1,2}; and Hyeon-Cheol Kim, DDS, MS, PhD^{1,3}

Cell Attachment Evaluation (One-Fil)



적응증

- 근관충전
- 치수절단술
- 천공봉쇄술
- 치근단형성술

임상케이스, 구대회현미경치과의원 구대회 원장

술전 사진

One-Fil Putty Injectable 적용

술후 사진

술전 사진

One-Fil Putty Injectable 적용

술후 사진

임상케이스, 이주경 원장

적응증

- 간접치수복조술
- 직접치수복조술
- 치근단절제술
- 치근단충전
- 재식술

과학논문

BASIC RESEARCH - TECHNOLOGY

Chemomechanical Properties and Biocompatibility of Various Premixed Putty-type Bioactive Ceramic Cements

Minju Song, DDS, MS, PhD,¹ So-Mang Lee, DDS, MS,¹ Ji-Young Bang, BS, MS,¹ Ruben H. Kim, DDS, PhD,² Sang Won Kwak, DDS, MS, PhD,¹ and Hyeon-Cheol Kim, DDS, MS, PhD¹

ABSTRACT
Introduction: This study aimed to evaluate the chemomechanical properties and biocompatibility of recently introduced premixed putty-type bioactive ceramic cements (PPBCs). Methods: Including ProRoot MTA (PMTA) as a control, BC RRM fast-set putty (BCPT), Well-Fix PT (WFPT), One-Fil PT (OFPT), and Endocem MTA premixed (ECPM) were compared to evaluate setting time, radiopacity, pH change, and microhardness. Biocompatibility on human dental pulp cells was compared using CCK-8 assay. Mineralization potential was evaluated using alkaline phosphatase activity, Alizarin Red S (ARS) staining, and quantitative real-time polymerase chain reaction with odontogenic gene marker. For data analysis, 1-way analysis of variance and Tukey's post hoc test were used at the significance level of 50%. Results: Among the PPBCs, BCPT presented the longest (52 ± 27) setting time (minutes) and others showed significantly shorter time than PMTA (34 ± 22) (P < .05). WFPT (6.20 ± 0.54) and OFPT (6.82 ± 0.53) showed significantly higher radiopacity values (mmAl) and others showed similar value compared with PMTA (P > .05). All PPBCs showed high alkaline pH from fresh materials and tended to increase according to time periods from 30 minutes to 12 hours. ECPM showed the highest value of microhardness (81.62 ± 5.93). WFPT showed similar, and others showed lower than PMTA (P < .05). All PPBCs showed biocompatibility in CCK-8 assay. All PPBCs showed similar or better value compared with PMTA in ALP and ARS staining, and ALP and DSPP marker expression (P < .05). Conclusions: The PPBCs showed clinically acceptable chemomechanical properties and favorable mineralization potential. (J Endod 2023;49:1713-1721.)

KEY WORDS
Biocompatibility; mineralization potential; microhardness; premixed putty-type bio ceramics;

SIGNIFICANCE

The recently introduced premixed putty-type bio ceramics, which have the advantages of uniform consistency and user-friendly manipulation, showed clinically acceptable chemomechanical properties and favorable mineralization potential.

임상케이스, 부산대학교 치과병원 김현철 교수

