

Competitive Product Comparison

MTA FILLAPEX

Physical and mechanical properties

Attributes	MTA FILLAPEX	SEALAPEX	BC SEALER/ IROOT	APEXIT	AH PLUS
PASTE-PASTE	Yes	Yes	Just one paste	Yes	Yes
MTA	Yes (13.2%)	No	No	No	No
RADIOPACITY	6.5 mm Al	6.1 mm Al	3.84 mm Al	3.1 mm Al	9.4 mm Al
FLOW	29 mm	25.15 mm	26.96 mm	24 mm	21.17 mm
WORKING TIME	23 minutes	2 hours	More than 4 hours	3 hours	4 hours
SOLUBILITY	0.09	NF	NF	0.4 - 0.6	0.3
RELEASE OF CALCIUM IONS	Yes	Yes	Yes	Yes	No
SETTING TIME	2 hours and 30 minutes	7 hours and 50 minutes	4 hours	2 hours and 15 minutes	8 hours
DIMENSIONAL CHANGE	-0.088%	NF	NF	+0.14% - 0.19%	+0.4 – 0.6%
EASY RETREATMENT	Yes	Yes	No	Yes	Yes

NF – not found

References

Dent Mater. 2001 Nov; 17(6):512-9. Dimensional change following setting of root canal sealer materials. Ørstavik D, Nordahl I, Tibballs JE.

J Endod. 2012 Jun; 38(6):842-5. doi: 10.1016/j.joen.2012.02.029. Epub 2012 Apr 4. Evaluation of radiopacity, pH, release of calcium ions, and flow of a bioceramic root canal sealer. Candeiro GT, Correia FC, Duarte MA, Ribeiro-Siqueira DC, Gavini G.

Radiopacidade e escoamento dos cimentos endodônticos AH Plus, Endo CPM Sealer, Fillapex, Sealapex, Epiphany e Epiphany SE Viapiana R*, Bosso R, Reis JMSN, Guerreiro-Tanomaru JM, Tanomaru-Filho M.

MTA-ANGELUS reparative cement

Physical and mechanical properties

Attributes	MTA-ANGELUS	PRO ROOT	BIODENTINE	ENDOSEQUENCE
RADIOPACITY	3.7 mm Al	2.5 mm Al	3.5 mm Al	3.84 mm Al
PH (168H)	9.3	9.22	8.02	8.05
SOLUBILITY (24 HOURS)	0.1	0.26	NF	NF
RELEASE OF CALCIUM IONS	0.93 mg/dl	0.92 mg/dl	0.68 mg/dl	NF
SETTING TIME	15 minutes	2 hours and 30 minutes	10 - 12 minutes	4 hours

References

J Endod. 2011 Apr; 37(4):502-6. doi: 10.1016/j.joen.2011.01.010. Comparison of intracanal EndoSequence Root Repair Material and ProRoot MTA to induce pH changes in simulated root resorption defects over 4 weeks in matched pairs of human teeth.