

Table S1. Calcium silicate-based materials specifics.

Calcium silicate-based material	Manufacturer	Composition	Preparation instructions	Lot number	Expiration date
ProRoot MTA®	Dentsply Maillefer, Tulsa, Oklahoma, United States of America	Powder: Portland cement, bismuth oxide, calcium sulfate dihydrate or gypsum, tricalcium silicate, dicalcium silicate, tricalcium aluminate, tetracalcium aluminoferrite. Liquid: water	Mixed powder/liquid ratio 1:3	177918	08/2020
TotalFill® BC Putty	FKG, La Chaux-des-Fonds, Switzerland	Tricalcium silicate, zirconium oxide, tantalum pentoxide, dicalcium silicate, and calcium sulfate.	Pre-mixed, ready-to-use, scoopable material	1702BPP	11/2019
Biodentine™	Septodont, Saint-Maur-des-Fossés Cedex, France	Powder: tricalcium silicate, zirconium oxide, calcium oxide, calcium carbonate and colorings. Aqueous solution: calcium chloride and polycarboxylate.	1. Pour 5 drops of liquid into the capsule 2. Place the capsule on a mixing device 3. Mix for 30 seconds	B21183	06/2019