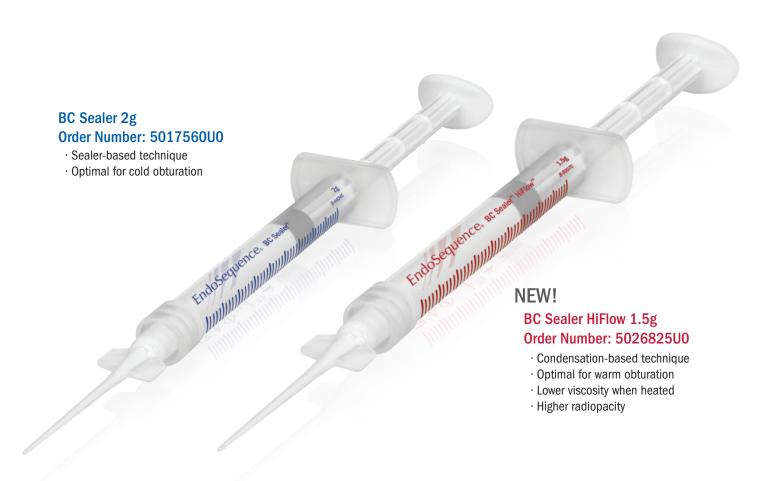


ENDOSEQUENCE® BC SEALER™ & BC SEALER HIFLOW™

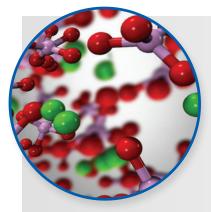
THE "STATE-OF-THE-ART" IN ENDODONTIC OBTURATION IS NOW AVAILABLE FOR WARM TECHNIQUES!

Clinicians now have two distinct formulations of the same proven pre-mixed bioceramic sealer to choose from. Compared to standard BC Sealer, BC Sealer HiFlow exhibits a lower viscosity when heated and is more radiopaque, making it optimized for warm obturation techniques.



BIOCERAMIC BONDED OBTURATION

Standard gutta percha can be used with BC Sealer, but for a true, gap-free seal, BC Points are recommended. BC Points are impregnated and coated with bioceramic particles to allow for bonding with BC Sealer. The benefit of using BC Sealer and BC Points is that three-dimensional bonded obturation can be achieved at room temperature. However, if a warm vertical technique is preferred it is recommended to use BC Sealer HiFlow with BC Points 150 Series along with BC Pellets at 150°C - 220°C.



BC SEALER SETTING/BONDING REACTION

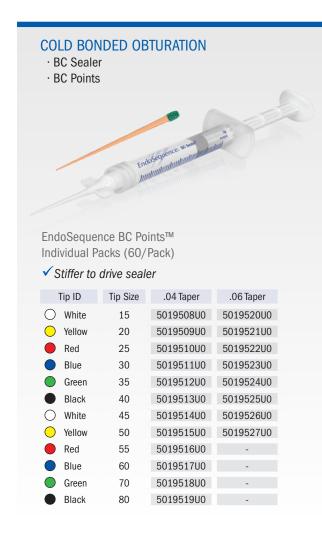
BC Sealer is a calcium silicate, calcium phosphate based sealer. The calcium silicate combines with water to form calcium hydroxide (high pH). The calcium hydroxide then combines with calcium phosphate to form hydroxyapatite.

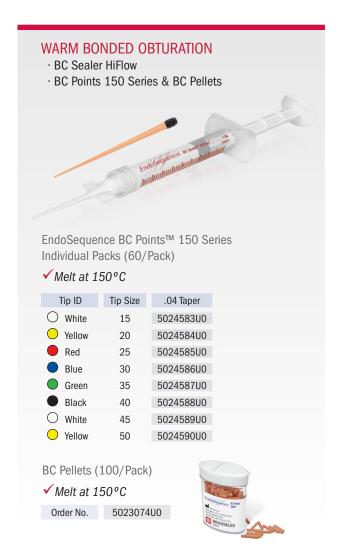
HYDRATION REACTIONS (A,B) $2[3CaO \cdot SiO_2] + 6H_2O \rightarrow 3CaO \cdot 2SiO_2 \cdot 3H_2O + 3Ca(OH)_2$ (A)

 $2[2Ca0\cdot SiO_2] + 4H_2O \rightarrow 3Ca0\cdot 2SiO_2\cdot 3H_2O + Ca(OH)_2$ (B)

PRECIPITATION REACTION 7Ca(OH)₂ + 3Ca(H₂PO₄)₂ \rightarrow Ca₁₀ (PO₄)₆ (OH)₂ + 12H₂O (C)

HYDROXYAPATITE





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