

CORECEM™

Dual cure resin cement
and core build-up composite



- One resin, two indications
- Very high radiopacity
- Ideal viscosity
- Insoluble



Our expertise is your strength
www.rtd.fr

CORECEM™: the current trend in post-endodontic restoration

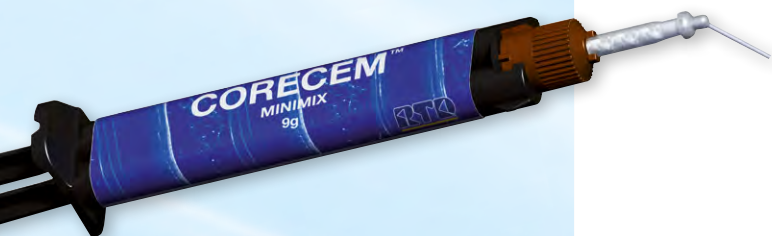
CORECEM™ is a dual-cure flowable hybrid composite for cementation of fiber posts and core build-ups (with or without a post). Using the same material for both technique steps saves time, materials, eliminates one adhesive interface to facilitate a durable “monobloc” restoration. CORECEM™ is available in VITA®** Shade A1, and has all of the mechanical properties needed with superior radiopacity (ISO #4049).

Mechanical properties

Nano-fillers impart high strength and **perfect handling**.



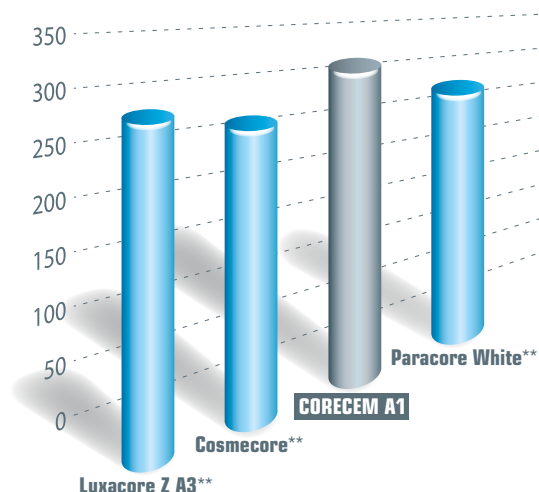
Despite dual cure capacity, high depth of cure is important in post cementation, to stabilize the post, expedite the technique, and is especially useful when using a chemically compatible light-cured bonding resin, such as SEALBOND® ULTIMA.



For long-term durability, resistance to moisture is as important as strength.

While the ISO Standards for composites allow a certain amount of Water Absorption and Solubility, CORECEM™ exhibits far less than allowed and ZERO Solubility at 7 days.

Compressive Strength (MPa)*



Although CORECEM™ is flowable, it has strength that meets or exceeds other resin cements and core composites.

Depth of Light-Cure (the Base component only)*

Luxacore Z Shade A3**	Cosmecore Shade A2**	CORECEM A1	Paracore Shade White**
4mm	4.6mm	4mm	2.9mm

Water Absorption and Solubility*

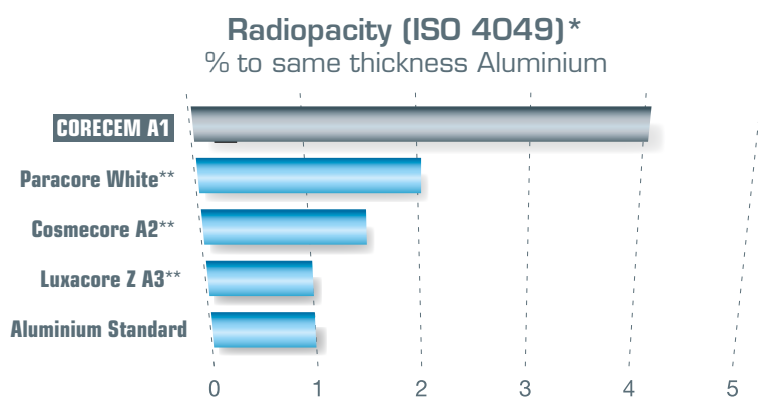
	ISO 4049 Maximum	CORECEM*
Water Absorption, 7 days, 37°C	≤ 40µg/mm ³	20µg/mm ³
Solubility @, 7 days, 37°C	≤ 7.5µg/mm ³	0.00µg/mm ³

*Internal Data **NOT a trademark of RTD

- Perfect for cementation of all fiber posts
- Easy to use, aesthetic
- Cuts like dentin

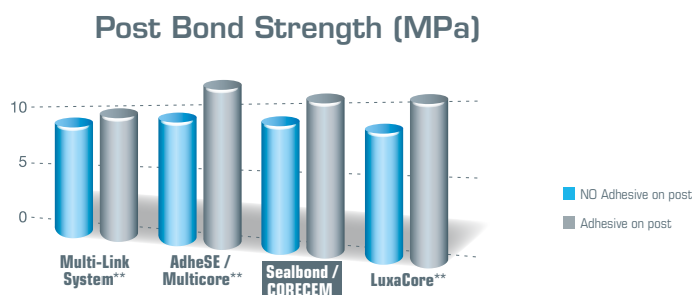
Radiopacity

Utilizing dispersed NANO-particles of Ytterbium Trifluoride in a bubble-free resin matrix, CORECEM™ has superior radiopacity to other popular cements and core materials, for better diagnostics. This feature helps if post removal ever becomes necessary. Here is a numerical comparison resulting from standard radiopacity testing for composites (ISO #4049).

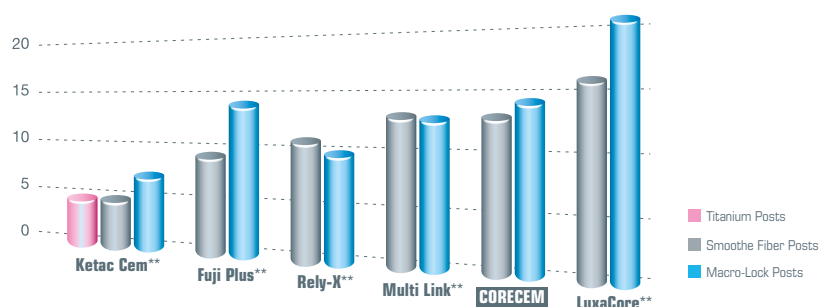


Retention of post/core

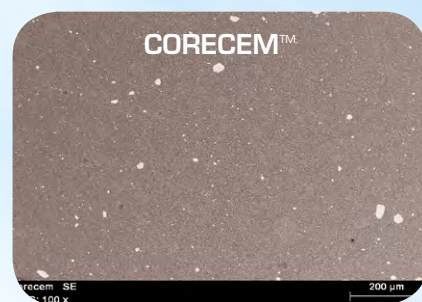
The MOST important thing to know about a resin cement system is how well it retains the post/core assembly.



Mackert, T., Binus, S., Koch, AT, Powers, J., Petschelt, A., Berthold, C., Bonding of FRC Posts to luting systems; Influence of application systems. J Dent Res. Vol 89 (Spec. Issue B) Abstract #3928, 2010 (www.dentalresearch.org).

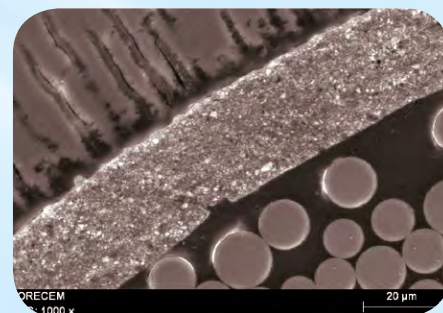


Ebert, T., Binus, S., Koch, AT, Powers, J., Petschelt, A., Berthold, C., Bonding of FRC Posts to luting systems; Influence of luting systems and post design. J Dent Res. Vol 89 (Spec. Issue B) Abstract #4482, 2010 (www.dentalresearch.org).



CORECEM™ is formulated to eliminate bubbles and internal porosities that can compromise strength, surface integrity or require additional repair work.

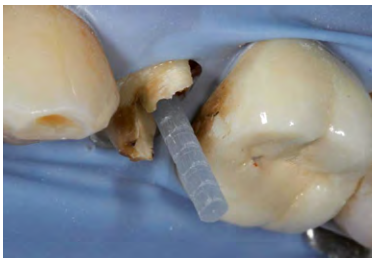
Independent study shows that the retention of the RTD post with CORECEM™ is equal to other popular systems.



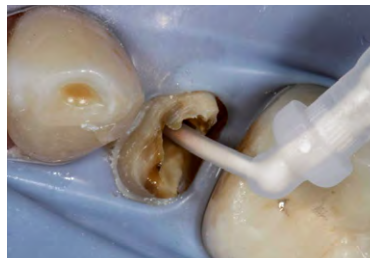
Further outside testing indicates that the adhesive cementation method (with etch-primer-cement) has superior bond strength attachment to dentin than Glass Ionomer-based or self-adhesive systems.

Abbreviated placement technique

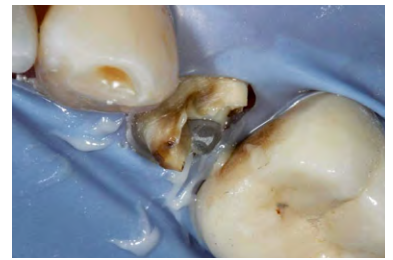
(Dr Tony Pensak, Calgary, Alberta, Canada)



Try-in



Inject CORECEM



Seat the post



Light cure



Trim CORECEM



Provisional

Minimix components



1410100
Intra oral Tip
(100 pieces)



1410110
Root Canal Tip
(100 pieces)



1410001
5ml MiniMix Gun



1410120
Minimix Syringe
9g / 5ml



1410050
Mixing Cannula
(50 pieces)



1410150
Mixing Cannula
(50 pieces)



1410250
Intra oral Tip
(100 pieces)



1410000
25ml Automix Gun



1410125
Automix syringe
42g / 25ml

Accessories



1030410
Sealbond Ultima 4.5ml



0940010
Coreforms in 5 sizes
(75 pieces)



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