

RelyX™ Fiber Post

Glass Fiber Post

RelyX™ Unicem

Self-Adhesive Universal Resin Cement



An easy system for cementing posts
delivering a **reliable result**

Easy. Reliable.

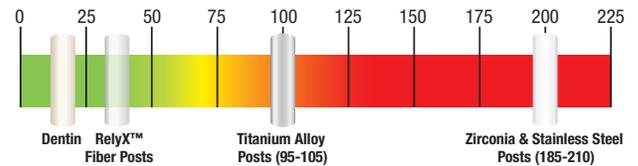
RelyX™ Fiber Post is designed to make excellent clinical results easier to achieve.

Why switch from metal to fiber posts?

Research noted in the graph at the right, verifies how much more similar the elasticity of RelyX Fiber Post is to human dentin than is the elasticity of metal and ceramic posts – which means a much lower risk of root fracture due to the “wedge effect.”

If endodontic retreatment is required, it’s reassuring to know that RelyX Fiber Posts can be removed easily, without damaging the tooth.

Elasticity Modulus (GPa) of Dentin and Post Materials

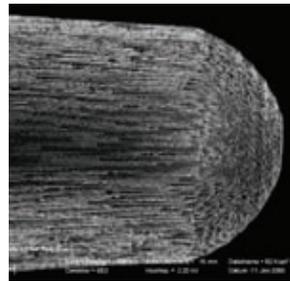


Source: 3M internal data & Materials Science And Engineering. An Introduction. 5th Ed., Wiley.

Why choose RelyX Fiber Posts?

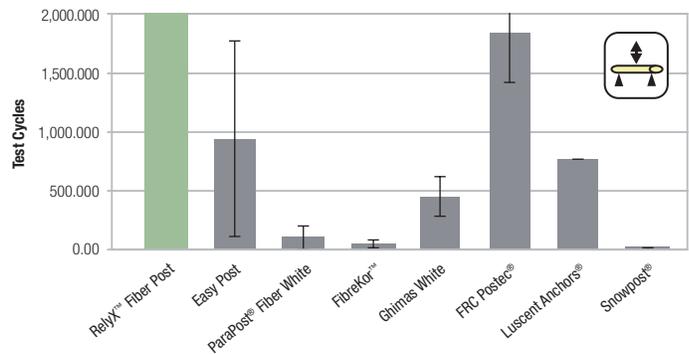
Strong and long-lasting.

RelyX Fiber Post’s unique resin composition and equally dispersed parallel fibers lead to significantly higher mechanical strength. The microporous surface allows for additional bond strength through microretentive effects.



SEM photo shows fibers and microporous surface.
Source: 3M ESPE internal data

Fatigue Test



Only RelyX™ Fiber Post showed no failures after 2 million cycles in the fatigue test (three-point bending cycles until fracture, depicted is the statistical average from tests on 10 posts). Source: Prof. M. Ferrari, University of Siena, Italy

Translucent and radiopaque.

The excellent light translucency of RelyX Fiber Post permits efficient light cure deep into the root canal. Its radiopacity was rated ‘good’ by a leading independent dental publication.



Light translucency of RelyX™ Fiber Post (size #2) here with the Elipar™ FreeLight 2 LED Curing Light.
Source: 3M ESPE internal data



The improved radiopacity of RelyX™ Fiber Post (size #2) makes future diagnosis easier.
Source: THE DENTAL ADVISOR, Research Report 20, 2009

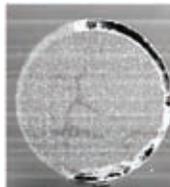
To view the full report, visit www.dentaladvisor.com

The RelyX™ Unicem system makes cementing a post fast, easy and reliable.

The proven RelyX™ Unicem Cement Aplicap™ Capsule combined with its unique Elongation Tip is designed to reach into the root canal, so you can apply cement in the canal from bottom to top. This greatly reduces the chance of air pockets and voids, resulting in outstandingly strong and virtually void-free post cementation. Convenience and reliability ... without compromise.



SEM images of a simulated root canal filled with RelyX™ Unicem Cement using the RelyX™ Unicem Aplicap™ Elongation Tip.



Resin cement applied using a common method* of putting the cement onto the posts before placement. Voids, which can compromise bond strength, are visible as dark spots in the upper image.

Source: Naumann M., Watzke R., University of Berlin, Charité

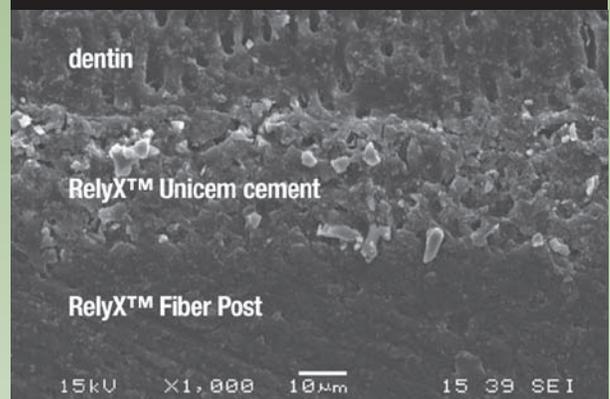
*The use of Lentulo spirals is contraindicated for numerous resin cements because it may significantly decrease setting time.



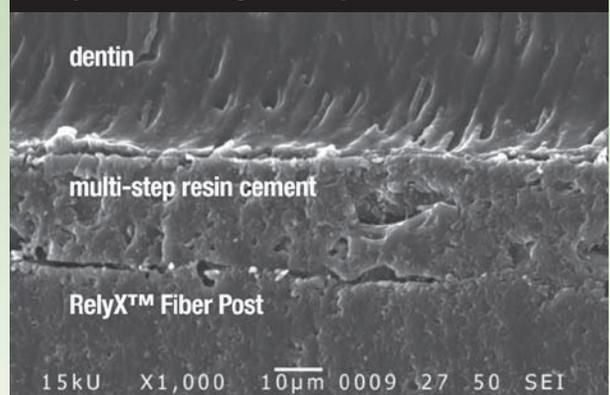
The proven solution that delivers better clinical results.

The combination of a strong post with a dentin-like flex, a convenient delivery and a proven cement, helps ensure the clinical success of post placement.

Post placement using RelyX™ Unicem Cement



Post placement using multistep resin cement

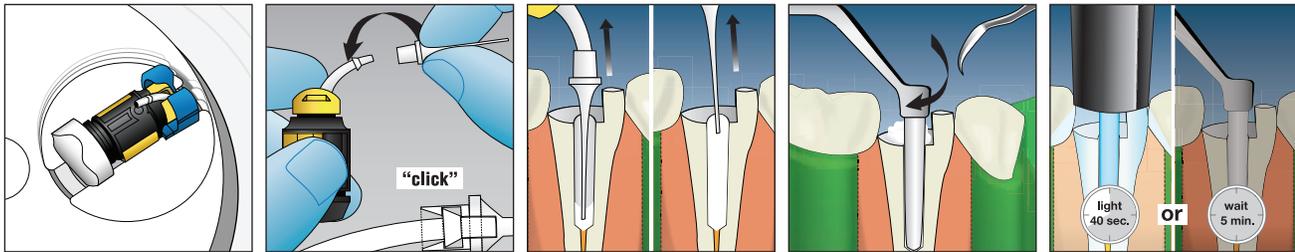


SEM images showing the sealing capability of RelyX™ Unicem Self-Adhesive Universal Resin Cement to RelyX™ Fiber Post, as compared to the sealing capability of a multi-step resin cement. The void-free application deep in the root canal and the lack of technique-sensitive bonding/priming steps promotes an optimal bond and seal between interfaces.

Source: Prof. Marco Ferrari, University of Siena, Italy

Our post and cement make it strong. Our system makes it easy.

RelyX™ Fiber Post is a strong, yet simple solution for cementing posts.



First, prepare canal for post placement procedure.

1. Activate the RelyX™ Unicem Cement Aplicap™ Capsule and mix for **10 seconds** in the RotoMix™ Capsule Mixing Unit from 3M ESPE – or **15 seconds** at highest speed in other units.
2. Attach the RelyX™ Unicem Aplicap™ Elongation Tip to the applicator. Listen for an audible “click.”
3. Apply cement in the root canal from bottom to top. **Keep tip immersed** in the cement during the entire cementation process, to avoid trapped air.
4. Seat post immediately. Twist slightly and apply moderate pressure to hold in position. Remove excess cement with a scaler or explorer before complete setting of the cement, **OR** tack-cure for **2 seconds** then remove excess cement.
5. Light cure for **40 seconds** **OR** allow to self-cure for 5 minutes.

Ordering Information

Item #	Product Information	Item #	Product Information
56860	RelyX™ Fiber Post Intro Kit: 5 of each: Size 1 Post (1.3mm dia.), Size 2 Post (1.6mm dia.) and Size 3 Post (1.9mm dia.); 4 drills: Size 1, Size 2, Size 3 and a Universal Drill; 20 Elongation Tips; Instructions; Technique Card	56866	RelyX™ Fiber Post Drill Refill Size 3 (Blue) 1 – Drill – Size 3 (1.9mm diameter)
56872	RelyX™ Fiber Post Refill Size 0 (White) 10 - Size 1 Posts (1.1mm diameter), 10 Elongation Tips	56867	RelyX™ Fiber Post Drill Refill, Size Universal 1 – Drill – Size Universal/Reamer
56861	RelyX™ Fiber Post Refill Size 1 (Yellow) 10 – Size 1 Posts (1.3mm diameter); 10 Elongation Tips	56868	RelyX™ Fiber Post/RelyX™ Unicem Cement Combination Kit: 5 of each: Size 1 Post (1.3mm dia.), Size 2 Post (1.6mm dia.) and Size 3 Post (1.9mm dia.); 4 drills: Size 1, Size 2, Size 3 and a Universal Drill; 20 Elongation Tips; Instructions; Technique Card, PLUS RelyX™ Unicem Cement Trial Kit, including 20 Aplicap™ Capsules (assorted); 1 Aplicap™ Activator/Applier Set; Instructions; Technique Card
56862	RelyX™ Fiber Post Refill Size 2 (Red) 10 – Size 2 Posts (1.6mm diameter); 10 Elongation Tips	56829	RelyX™ Unicem Self-Adhesive Universal Resin Cement Trial Kit: 20 Aplicap™ Capsules in assorted shades (10 – A2 Universal, 6 – Translucent, 4 – A3 Opaque); 1 Aplicap Activator/Applier Set; Instructions; Technique Card
56863	RelyX™ Fiber Post Refill Size 3 (Blue) 10 – Size 3 Posts (1.9mm diameter); 10 Elongation Tips	56815	RelyX™ Unicem Cement Aplicap™ Capsule Refills – Assorted 50 Aplicap Capsules in assorted shades (24 – A2 Universal, 16 – Translucent, 10 – A3 Opaque)
56873	RelyX™ Fiber Post Drill Refill Size 0 1 – Drill - Size 0 (1.1mm diameter)	77550	RelyX™ Unicem Aplicap™ Elongation Tips 10 – Elongation Tips for use with RelyX Unicem Aplicap Capsules
56864	RelyX™ Fiber Post Drill Refill Size 1 (Yellow) 1 – Drill – Size 1 (1.3mm diameter)		
56865	RelyX™ Fiber Post Drill Refill Size 2 (Red) 1 – Drill – Size 2 (1.6mm diameter)		

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