

Cementation Solutions

RelyX™ Unicem 2 Automix

Self-Adhesive Resin Cement



Simplicity — powered by
performance

3M ESPE

RelyX™ Unicem 2 Automix Cement – The next generation of a no. 1 product

Dentists have put their trust in RelyX™ Unicem Self-Adhesive Resin Cement for many years. Being the world's most clinically proven self-adhesive cement, its long-lasting success is furthermore based on multiple studies and an innovative spirit. These values are equally applicable to the new RelyX™ Unicem 2 Automix Cement from 3M™ ESPE™. The new generation raises the high standard even higher through the new delivery it is even easier to apply and very convenient to use. No other self-adhesive resin cement shows such well balanced overall performance as RelyX™ Unicem 2 Automix.



World Leader

“Rely on your own skill and on RelyX Unicem 2 Automix.”

General dentist, Germany

The strong basis: A long-term clinical history and top ratings

3M ESPE's self-adhesive technology builds on a multitude of awards – including the latest “2010 Top Long-term Performer” award from The Dental Advisor and the “2009 Townie Choice Award for Cementation”. It has emerged as the worldwide “gold standard” for self-adhesive cementation. With RelyX Unicem 2 Automix cement, the unique success story continues.



townie
choice
awards.2009

Dentists are enthusiastic about RelyX™ Unicem 2 Automix Cement:

The results of our field test show that **97%** of respondents were very satisfied or satisfied with RelyX™ Unicem 2 Automix Cement. More than **95%** of the dentists who responded would recommend this cement to their colleagues.

What dentists are saying

“Super product! Easy handling, varied uses!”

“Easy to handle, perfect flow, perfect delivery system, perfect working time, excess is easy to remove.”

“Excellent, easy-to-use cement in a simple, economical delivery system.”

“Super simple, fast and secure; super adhesion; wide range of indications.”

“It is easy to use and the tips are fantastic.”

Easy-to-use



The high adhesive bond strength of RelyX Unicem 2 Automix cement allows for reliable and comfortable cementation of Maryland and inlay/onlay bridges. For these indications an additional enamel etching step increases the available surface area for bonding.

Indications

RelyX Unicem 2 Automix cement is indicated for the permanent cementation of

- All-ceramic, composite, or metal inlays, onlays, crowns and bridges
- Posts and screws
- 2- or 3-unit Maryland bridges
- 3-unit inlay/onlay bridges
- All-ceramic, composite, or metal restorations to implant abutments

Combining simplicity with top performance

RelyX™ Unicem 2 Automix Cement is strong where it counts and combines the key factors for clinical success: high adhesion, resistance to discolouration, long-term stability and almost no post-operative sensitivities. Its exceptionally simple handling, dispensing, treatment and overall working conditions make RelyX Unicem 2 Automix a favourite with dentists who know they can enjoy this ease of use while still counting on uncompromising quality.

Easy-to-use automix syringe.

- Comfortable handling
- Optimal consistency for dispensing and seating
- Flexible dosing
- Time-saving
- A great choice of tips allows always easy application of paste directly into the cavity
- Low risk of air bubbles and voids



Simplicity



“Super good handling, cool endo tips, no bubbles.”

General dentist, Germany

High colour stability for natural aesthetics.

Patients will enjoy the high colour stability of RelyX Unicem 2 Automix cement. Compared to other leading products, it clearly shows the least amount of discolouration after 3 days in a coffee solution.

Self-adhesive, simple and time-saving.

RelyX Unicem 2 Automix cement delivers excellent results without any pre-treatment of the tooth. You can save time and eliminate sources of potential error as you do not need to etch, prime or bond. Apply the ready-mixed self-adhesive resin cement directly in the restoration or cavity, place the restoration, remove any overflow, light-cure and finish – and that’s it.

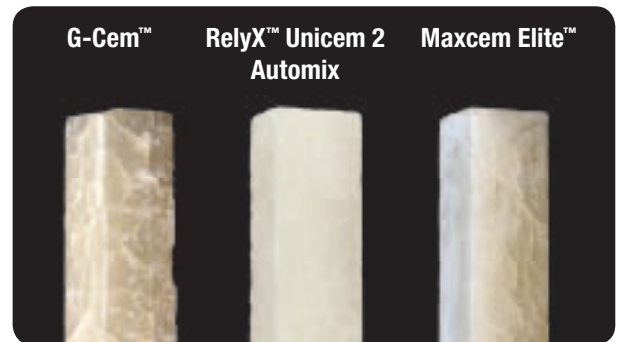
	before	after
RelyX™ Unicem 2 Automix		
Maxcem Elite™		
SmartGem® 2		
G-Cem™		

Test specimen after 3 days immersed in coffee at 36°C.

Source: 3M ESPE internal data (tested colour shades: A2 or yellow)

Proven long-term stability – due to unique material characteristics.

RelyX™ Unicem 2 Automix Cement is acidic and hydrophilic upon application and becomes neutral and hydrophobic after setting. Therefore, it is better able to resist water uptake and remains more stable over time. The results of thermocycling stress tests on self-adhesive resin cements show that RelyX Unicem 2 Automix remains intact, while others show obvious cracking.



Results of stress test on self-adhesive resin cements. All samples were self-cured and thermocycled 10,000 times. Source: 3M ESPE internal data

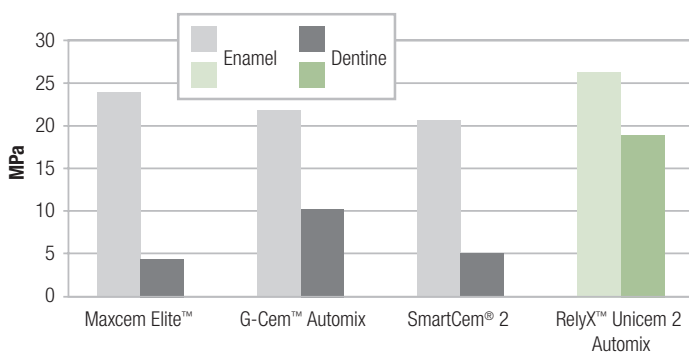
Performance

“It’s uncomplicated and does what it’s supposed to ... it sticks.”

General dentist, Germany

Excellent bond strength.

You can rely on the performance of RelyX Unicem 2 Automix cement more than ever: compared to other self-adhesive resin cements, RelyX Unicem 2 Automix shows the best adhesion – on both dentine and enamel. Patients will benefit from a long-lasting and secure restoration.



Shear bond strength after 24h, materials light-cured.

Source: 3M ESPE internal data

Additional features at a glance:

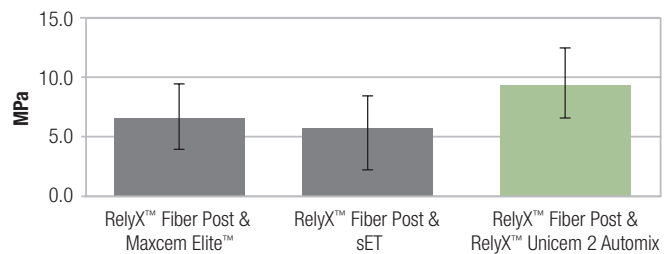
- Moisture-tolerant
- Dual-cure
- Very easy removal of excess
- Low post-operative sensitivity
- Excellent mechanical properties

A brilliant combination in endo treatment – RelyX™ Unicem 2 Automix Cement and RelyX™ Fiber Post

The combination of RelyX™ Unicem 2 Automix Cement and RelyX™ Fiber Post provides many advantages. The convenient automix syringe and perfectly matched endo tips facilitate access to the root canal, so you can apply cement in the canal from bottom to top. RelyX Fiber Posts do not require any pre-treatment when used with RelyX Unicem 2 Automix cement, so you save time. Compared to the traditional method of coating the post with cement before insertion, the risk of entrapping air bubbles and voids is much lower. This leads to outstandingly strong and virtually void-free post cementations. With RelyX Unicem 2 Automix cement, the retention rate for RelyX Fiber Posts is significantly greater than with other self-adhesive cements. In other words, count on convenience and reliability – without compromises.



Based on a study of the university of Siena, Italy, RelyX Unicem 2 Automix cement shows superior retention and sealing in the root canal in combination with RelyX™ Fiber Post.



Best retention for RelyX™ Fiber Post in the root canal with RelyX™ Unicem 2 Automix Cement.

Source: A. Cantoro, C. Goracci, A. Mazzoni, L. Breschi, and M. Ferrari, 140453; IADR 2010



All-ceramic restoration on root-treated second upper premolar

Dr. Barbara Cerny, Germany



Fig. 1: Initial situation. A previously been root canal treated tooth cracked in the area of the palatal cusp.



Fig. 2: Preparation of the root canal using RelyX™ Fiber Post drills (3M ESPE).



Fig. 3: Fit check of the RelyX™ Fiber Post (3M ESPE).



Fig. 4: Extra-oral trimming of the RelyX™ Fiber Post.



Fig. 5: Attaching mixing tip with endo tip on RelyX™ Unicem 2 Automix syringe (3M ESPE).



Fig. 6: Application of RelyX™ Unicem 2 Automix Cement directly into the root cavity.

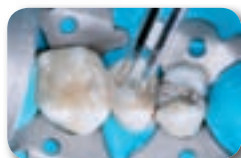


Fig. 7: Insertion of the RelyX™ Fiber Post.



Fig. 8: Light curing using Elipar™ S10 Curing Light from 3M ESPE.



Fig. 9: Preparation for Lava™ Crown (3M ESPE).



Fig. 10: Lava™ Crown after final cementation.

Why choose RelyX™ Fiber Posts?

RelyX™ Fiber Posts provide:

- Excellent **light translucency** and **improved radiopacity**.
- **Dentine-like elasticity** for a lower risk of root fracture (compared to metal /ceramic posts).
- **Outstanding mechanical strength** (compared to other leading fiber posts).

Translucency and radiopacity.

The excellent light translucency of RelyX Fiber Post permits efficient light curing deep into the root canal. Its improved radiopacity is among the highest for available glass fiber posts.



Light translucency of RelyX™ Fiber Post.
Source: 3M ESPE internal data

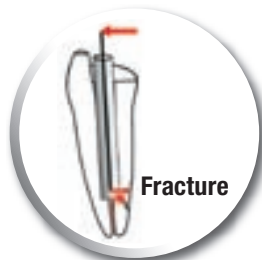


The improved radiopacity of RelyX™ Fiber Post (size 2) makes future diagnosis easier.

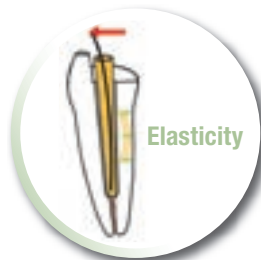
Source: THE DENTAL ADVISOR, Research Report 20, 2009

Dentine-like elasticity.

With RelyX™ Fiber Post the risk of root fractures is significantly reduced. Posts with low flexibility like metal posts exert a “wedge effect” that can be compared to that of a metal wedge in a piece of wood. Fiber posts avoid this effect because of the dentine-like elastic properties.



Metal post



RelyX™ Fiber Post
(Fiber reinforced post)

Expertise you can rely on



We at 3M ESPE are renowned for our dedication to quality, and our innovative and proven products have always set standards in dentistry. So play it safe – and trust the world market leader with a complete portfolio of permanent and temporary cements.

Ordering Information



RelyX™ Unicem 2 Automix Cement/
RelyX™ Fiber Post Starter Kit – A2 (56850)



RelyX™ Unicem 2 Automix Cement Refill –
A2 (56846)



RelyX™ Unicem 2 Automix Cement Value Pack –
A2 (56849)

Item No. Product Information

Starter Kit

56850 RelyX™ Unicem 2 Automix Cement/RelyX™ Fiber Post Starter Kit, shade A2 Universal:
1 syringe à 8.5 g, 7 mixing tips (regular), 15 mixing tips (wide), 15 endo tips, 5 intra-oral tips,
5 RelyX™ Fiber Posts size 0 (1.1 mm dia), 5 RelyX™ Fiber Posts size 1 (1.3 mm dia), 5 RelyX™ Fiber
Posts size 2 (1.6 mm dia), 5 RelyX™ Fiber Posts size 3 (1.9 mm dia), 5 drills sizes 0, 1, 2, 3, Universal

Refills

56848 Shade Translucent: 1 syringe à 8.5 g, 15 mixing tips (regular),
5 mixing tips (wide), 5 endo tips

56846 Shade A2 Universal: 1 syringe à 8.5 g, 15 mixing tips (regular),
5 mixing tips (wide), 5 endo tips

56847 Shade A3 Opaque: 1 syringe à 8.5 g, 15 mixing tips (regular),
5 mixing tips (wide), 5 endo tips

Value Packs

56858 Shade Translucent: 3 syringes à 8.5 g, 30 mixing tips (regular),
20 mixing tips (wide), 15 endo tips, 5 intra-oral tips

56849 Shade A2 Universal: 3 syringes à 8.5 g, 30 mixing tips (regular),
20 mixing tips (wide), 15 endo tips, 5 intra-oral tips

56857 Shade A3 Opaque: 3 syringes à 8.5 g, 30 mixing tips (regular),
20 mixing tips (wide), 15 endo tips, 5 intra-oral tips

Refills RelyX™ Unicem 2 Automix Tips

56851 30 Automix Tips (regular)

56856 20 Automix Tips (wide)

56855 15 Automix Endo Tips

56852 15 Automix Intra-Oral Tips

RelyX™ Fiber Post

56860 Intro Kit: Box with 5 posts of each size: 1 (1.3 mm dia), 2 (1.6 mm dia), 3 (1.9 mm dia); 4 drills sizes 1,
2, 3, 1 universal drill, 20 Elongation Tips

RelyX™ Fiber Post Refills

56872 10 RelyX™ Fiber Posts size 0 (1.1 mm dia); 10 Elongation Tips

56861 10 RelyX™ Fiber Posts size 1 (1.3 mm dia); 10 Elongation Tips

56862 10 RelyX™ Fiber Posts size 2 (1.6 mm dia); 10 Elongation Tips

56863 10 RelyX™ Fiber Posts size 3 (1.9 mm dia); 10 Elongation Tips

56873 1 drill size 0 (1.1 mm dia)

56864 1 drill size 1 (1.3 mm dia)

56865 1 drill size 2 (1.6 mm dia)

56866 1 drill size 3 (1.9 mm dia)

56867 1 universal drill

3M ESPE

3M ESPE AG
ESPE Platz
82229 Seefeld · Germany
E-Mail: info3mespe@mmm.com
Internet: www.3mespe.com

You + 3M ESPE =
New ideas for dentistry

3M, ESPE, Elipar, Lava and RelyX are
trademarks of 3M or 3M ESPE AG.

G-Cem, Maxcem Elite and SmartCem are
not trademarks of 3M or 3M ESPE AG.

©3M 2010. All rights reserved.

01 (06.2010)