

RelyX™ Cement Solutions

for Chairside CAD/CAM



For dentists who think
in three dimension.

Research shows that indirect restorations offer better clinical longevity when luted with resin cement.¹

No matter what system, block or technique you use ... there's a RelyX™ Cement that's been extensively tested and consistently proven when used with CAD/CAM restoration materials.

Chairside CAD/CAM Solutions Selection Chart	RelyX™ Unicem Self-Adhesive Universal Resin Cement	RelyX™ ARC Adhesive Resin Cement	Pretreatment Recommendations*
Glass, ceramic (etchable)			
Paradigm™ C	★	★	<ol style="list-style-type: none"> 1. Etch with hydrofluoric acid 2. Rinse 15(s), dry with air free of oil 3. Silane treatment
IPS e.max® CAD by Ivoclar Vivadent	★	★	
IPS Empress® CAD by Ivoclar Vivadent	★	★	
CEREC® Blocks by Sirona	★	★	
VITABLOCS® by Vita	★	★	
Composite			
Paradigm™ MZ100 Block for CEREC® Systems	★	★	<ol style="list-style-type: none"> 1. Sand blast with aluminum oxide < 40 um 2. Clean with alcohol and dry (Surface can also be silane treated; recommendations vary by mfr.)

*Please follow the instructions for use from the manufacturer. In the absence of deviating instructions, we recommend these Pretreatment Recommendations.

¹ Research cited inside of this brochure.

RelyX™ Cements. Easy to choose. Easy to use.

Self-adhesive

This cement has earned the highest award: Trust.

If there's one thing you need most from your cement, it's confidence. RelyX™ Unicem Self-Adhesive Universal Resin Cement is a product you can use with ease. It has the longest clinical history of all self-etch cements. With the continuous flow of positive results from clinical studies—and very good ratings by test institutes—it has earned the trust of the dental community worldwide.

RelyX™ Unicem Self-Adhesive Universal Resin Cement

Summary of advantages

- Easy to use for virtually all indications*
- Eliminates the need for etching, priming and bonding steps
- Strong adhesive, esthetic and moisture-tolerant
- Clinically-proven with 6+ years of data, independent studies and opinion leader testing
- Proven to reduce post-operative sensitivity compared to traditional resin cements
- The innovative Clicker™ Dispenser makes it easy to get the exact dosage for consistent results

*For veneers use RelyX™ Veneer Cement from 3M ESPE.

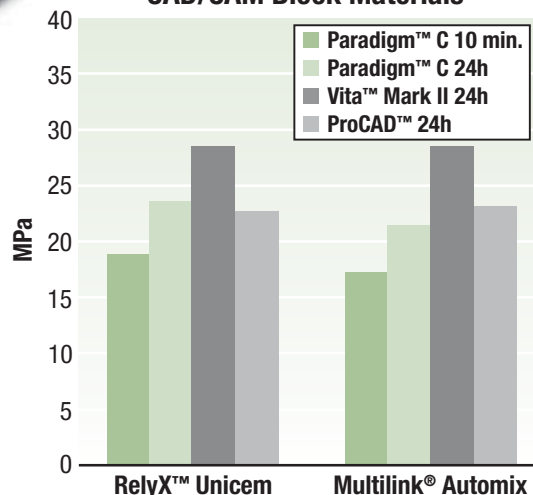
Its strength is similar to that of total-etch cements, but without pretreatment of teeth. **It is suited for luting ceramic and composite CAD/CAM restorations.** This universal resin cement was specially formulated to be **self-adherent and moisture tolerant, eliminating the need for separate etching, priming or bonding steps.** This saves time and greatly reduces the potential for patient sensitivity. Available in 3 shades (Translucent, A2 Universal, A3 Opaque), the esthetic properties make it an attractive and ideal universal solution for all-ceramic and composite CAD/CAM restorations.

RelyX Unicem Self-Adhesive Universal Resin Cement has been extensively tested by industry experts. Tests show:

- Strong adhesions
- High physical strengths
- Low linear expansion
- Good marginal integrity



Shear Bond Strength to Various CAD/CAM Block Materials



RelyX™ Unicem Self-Adhesive Universal Resin Cement provides reliable bond strengths to all materials used for CAD/CAM restorations. RelyX Unicem cement in the Clicker™ Dispenser used in testing. Source: 3M ESPE internal data



Awarded The Dental Advisor Excellent Rating +++++ based on 5-year study.



2008 Townie Choice Award
Cements - Bonded Porcelain

Total-etch

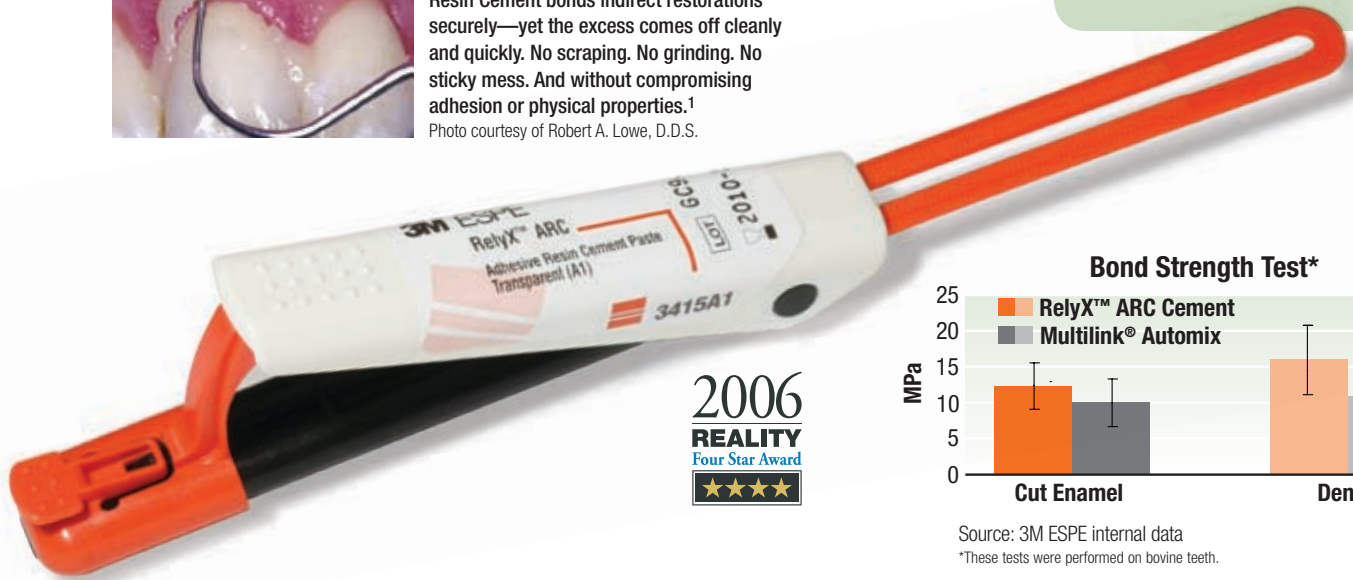
Superior strength: immediate and long-term

RelyX™ ARC Adhesive Resin Cement is as easy to work with as it is strong. This permanent dual-cure resin cement bonds indirect CAD/CAM restorations securely, and **adheres to ceramic, precured composite, enamel and dentin**—yet the excess cement comes off easily. It's available in two natural tooth-colored shades—Transparent (A1) and Universal (A3)—to meet your needs for a cement solution that's strong, easy to use AND esthetic.



Easy cleanup. RelyX™ ARC Adhesive Resin Cement bonds indirect restorations securely—yet the excess comes off cleanly and quickly. No scraping. No grinding. No sticky mess. And without compromising adhesion or physical properties.¹

Photo courtesy of Robert A. Lowe, D.D.S.

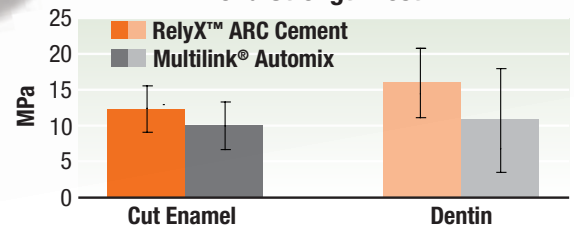


RelyX™ ARC Adhesive Resin Cement

Summary of advantages

- High immediate bond strength
- Provides easy cleanup
- Easy to use
- Dispenses uniform procedure-specific dosages

Bond Strength Test*



Source: 3M ESPE internal data

*These tests were performed on bovine teeth.

Compatible with Adper™ Single Bond Plus Adhesive or Adper™ Easy Bond Self-Etch Adhesive

Summary of advantages

- Chemistry-proven by a 10-year clinical history*
- Similar techniques to simplify usage
- Ethanol-based solvent provides better stability for placement
- Available in unit dose delivery

For best results, use this guide to help choose the best adhesive for the job.

- ★ = Recommended for this indication
- ★★ = Excellent for this indication

Indication	Adper™ Easy Bond Self-Etch Adhesive ³	Adper™ Single Bond Plus Adhesive
Crown & Bridge (use under resin cement) ²	★	★★
Contamination Concerns (i.e., pedo, geriatric)	★★	★
Root Surface Desensitization	★★	★

¹ Ario PD: Immediate Shear Bond Strengths of a New 3M Resin Cement. *J Dent Res Special Issue* 1998; 77: (Abstract 2506).

² After light curing and when combined with 3M™ ESPE™ RelyX™ ARC Adhesive Resin Cement. ³ May selectively etch when using a self-etch adhesive.

*Adper Single Bond Plus Adhesive is based on the clinically proven chemistry of the original Adper™ Single Bond Dental Adhesive.

3M ESPE – the leading provider of cementation solutions



Research shows that indirect restorations offer better clinical longevity when luted with resin cement.

Microtensile Bond Strength of CAD/CAM Blocks Using Self-Adhesive Resin Cement

Reprinted with permission from the *Journal of Dental Research*, Vol. 87, Special Issue B, Abstract # 0234, 2008
http://iadr.confex.com/iadr/2008Toronto/techprogram/abstract_106746.htm

Fracture Resistance of Minimally Prepared Resin-Bonded CEREC® Inlays

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<http://iadr.confex.com/iadr/2008Toronto/techprogram/index.html>

Clinical Longevity of CAD/CAM Generated Y-TZP Posterior Fixed Partial Dentures

J.A. Sorensen, R. Lusch and K. Yokoyama, Pacific Dental Institute, Portland, OR, USA
AADR 2006, Orlando, #0270

Dent Update 2005 Jun; 32(5)

"Correct choice of a luting material with optimum physical properties is central to success in indirect dentistry."

J Prosthet Dent. 2001 Nov;86(5):5111-9 Retrospective 16-year *in-vivo* study

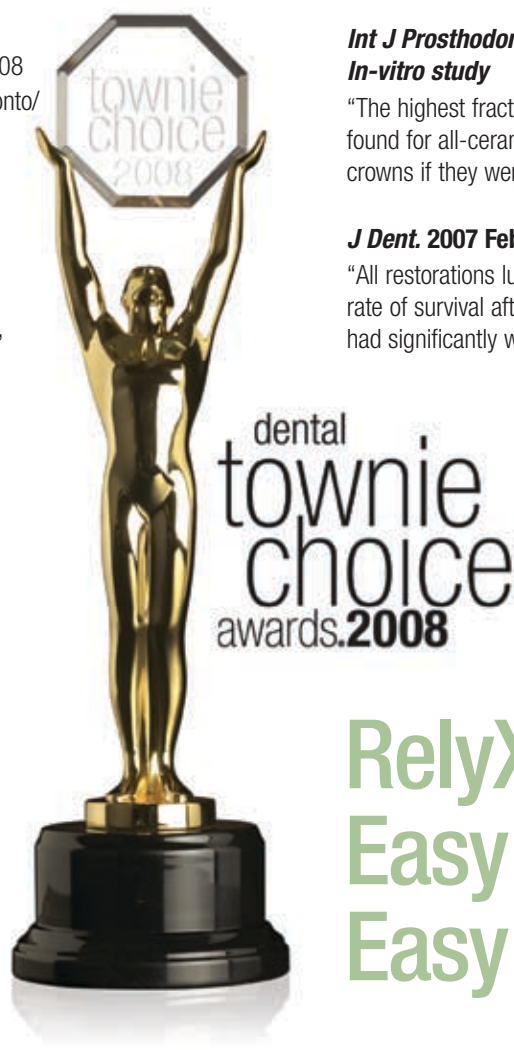
"Acid-etched Dicor restorations luted with resin composite exhibited a more favorable survival than those luted with glass ionomer ($P < .01$) and zinc phosphate ($P < .05$)."

Int J Prosthodont. 2003 Sept-Oct; 16(5):538-42 In-vitro study

"The highest fracture resistance and marginal adaptation were found for all-ceramic and glass fiber-reinforced composite molar crowns if they were luted with resin cement."

J Dent. 2007 Feb;35(2):130-6

"All restorations luted with resin cement showed the highest rate of survival after 7 years of follow-up. The alternative lutes had significantly worse survival ($P < 0.05$)."



RelyX™ Unicem Self-Adhesive
Universal Resin Cement

2008 Townie Choice Award
Cements - Bonded Porcelain

RelyX™ Cements.
Easy to choose.
Easy to use.

The Clicker™ Dispenser from 3M ESPE delivers precise dosages with less waste.

- Suited for all sizes of restorations
- Choose amount dispensed
- Delivers premeasured doses for consistent, easy, economical mixing
- No need for mixer, activator, applicators, mixing tips or other devices
- Consumption level indicator for better material management



RelyX™ Unicem Self-Adhesive Universal Resin Cement
Contains 11g material dispensed in 80 clicks (approx. 40 applications)

RelyX™ ARC Adhesive Resin Cement
Contains 4.5g material dispensed in 80 clicks
- Bonded amalgam/small inlay: approx 2 clicks
- Post/inlay/anterior crown: approx. 3 clicks
- Onlay/posterior crown: approx. 4 clicks

Ordering Information

Item #	Product Information
56838	RelyX™ Unicem Self-Adhesive Universal Resin Cement in the Clicker™ Dispenser Single Pack Includes: 1 – 11g Clicker Dispenser (Shade Translucent); 1 mix pad; instructions, technique card
56837	RelyX™ Unicem Self-Adhesive Universal Resin Cement in the Clicker™ Dispenser Single Pack Includes: 1 – 11g Clicker Dispenser (Shade A2 Universal); 1 mix pad; instructions, technique card
56836	RelyX™ Unicem Self-Adhesive Universal Resin Cement in the Clicker™ Dispenser Single Pack Includes: 1 – 11g Clicker Dispenser (Shade A3 Opaque); 1 mix pad; instructions, technique card
56829	RelyX™ Unicem Self-Adhesive Universal Resin Cement Aplicap™ Capsule Trial Kit Kit includes: 20 capsules assorted shades with hardware: 10 (A2 Universal), 6 (Translucent), 4 (A3 Opaque); Activator/Applicator set for Aplicap capsules; instructions, technique card

Item #	Product Information
3415A1	RelyX™ ARC Adhesive Resin Cement Refill Includes: 1 – 4.5g Clicker Dispenser (Shade Transparent)
3415A3	RelyX™ ARC Adhesive Resin Cement Refill Includes: 1 – 4.5g Clicker Dispenser (Shade Universal)
41248	Adper™ Easy Bond Self-Etch Adhesive Unit Dose Intro Pack 40 unit dose applicators
51000	Adper™ Single Bond Plus Unit Dose Kit Kit includes: 40 unit dose applicators; 1 – 3ml etchant syringe

Customer Care Center: 1-800-634-2249 www.3MESPE.com/RelyX

3M ESPE

Dental Products

3M Center
Building 275-2SE-03
St. Paul, MN 55144-1000
U.S.A.
1-800-634-2249

3M Canada

Post Office Box 5757
London, Ontario N6A 4T1
Canada
1-888-363-3685

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