



Ultimate bond strength  
for highest aesthetics

Recommendation by Cement & Indication	RelyX™ Ultimate Clicker™ Adhesive Resin Cement	RelyX™ U200 Self-Adhesive Resin Cement	Ketac™ Cem Plus Resin Modified Glass Ionomer Cement	RelyX™ Veneer Veneer Cement
<b>Metal / Metal based</b>				
Inlays / Onlays	+	++	+	-
Crowns / Bridges	+	++	++	-
Endodontic Posts	+	++	++	-
Maryland Bridges	++	+	-	-
<b>Glass Ceramics (incl. Li. Disilicate)</b>				
Inlays / Onlays	++	+	-	-
Partial Crowns / Table tops	++	+	-	-
Crowns / Bridges	++	++	-	-
Veneers	+	-	-	++
<b>Oxide Ceramics (e.g. Lava™ Zirconia)</b>				
Crowns / Bridges	+	++	+	-
Endodontic Posts	+	++	+	-
Maryland Bridges	++	+	-	-
<b>Resin Nano Ceramics (e.g. Lava™ Ultimate CAD/CAM Restorative)</b>				
Inlays / Onlays	++	-	-	-
Crowns	++	-	-	-
Veneers	+	-	-	++
<b>Resin Composites</b>				
Inlays / Onlays	++	+	-	-
Crowns	++	++	-	-
Endo Posts (e.g. RelyX™ Fiber Post)	+	++	-	-
Veneers	+	-	-	++

++ Highly recommended\*    + Recommended    - Not indicated

\*Either better performance for this indication or easier handling at equal performance.

Ordering Information



RelyX™ Ultimate Clicker™ Trial Kit – A1 (56924)



RelyX™ Ultimate Clicker™ Refill – Translucent (56920)

Item No.	Product Information
<b>Trial Kit</b>	
56924	<b>RelyX™ Ultimate Clicker™ Trial Kit (A1):</b> 1 bottle Single Bond Universal Adhesive à 1.5 ml, 1 etchant syringe à 3 ml, 25 dispensing tips for etchant syringe, 50 microbrushes, 1 RelyX™ Ultimate Clicker™ (A1) à 4.5 g, 1 mixing pad
<b>Refills</b>	
56920	<b>Shade Translucent:</b> 1 RelyX™ Ultimate Clicker™ à 4.5 g
56923	<b>Shade B0.5 Bleach:</b> 1 RelyX™ Ultimate Clicker™ à 4.5 g
56921	<b>Shade A1:</b> 1 RelyX™ Ultimate Clicker™ à 4.5 g
56922	<b>Shade A3 Opaque:</b> 1 RelyX™ Ultimate Clicker™ à 4.5 g
<b>RelyX™ Try-in Paste Refills</b>	
7614TRT	<b>Shade Translucent:</b> 1 try-in paste refill à 2 g
7614B0.5T	<b>Shade B0.5 Bleach:</b> 1 try-in paste refill à 2 g
7614A1T	<b>Shade A1:</b> 1 try-in paste refill à 2 g
7614A3T	<b>Shade A3 Opaque:</b> 1 try-in paste refill à 2 g
<b>Single Bond Universal Adhesive</b>	
41282	<b>Single Bond Universal Adhesive Refill:</b> 5 ml adhesive vial
41263	<b>Scotchbond™ Universal Etchant Etching Gel:</b> 2 syringes à 3 ml



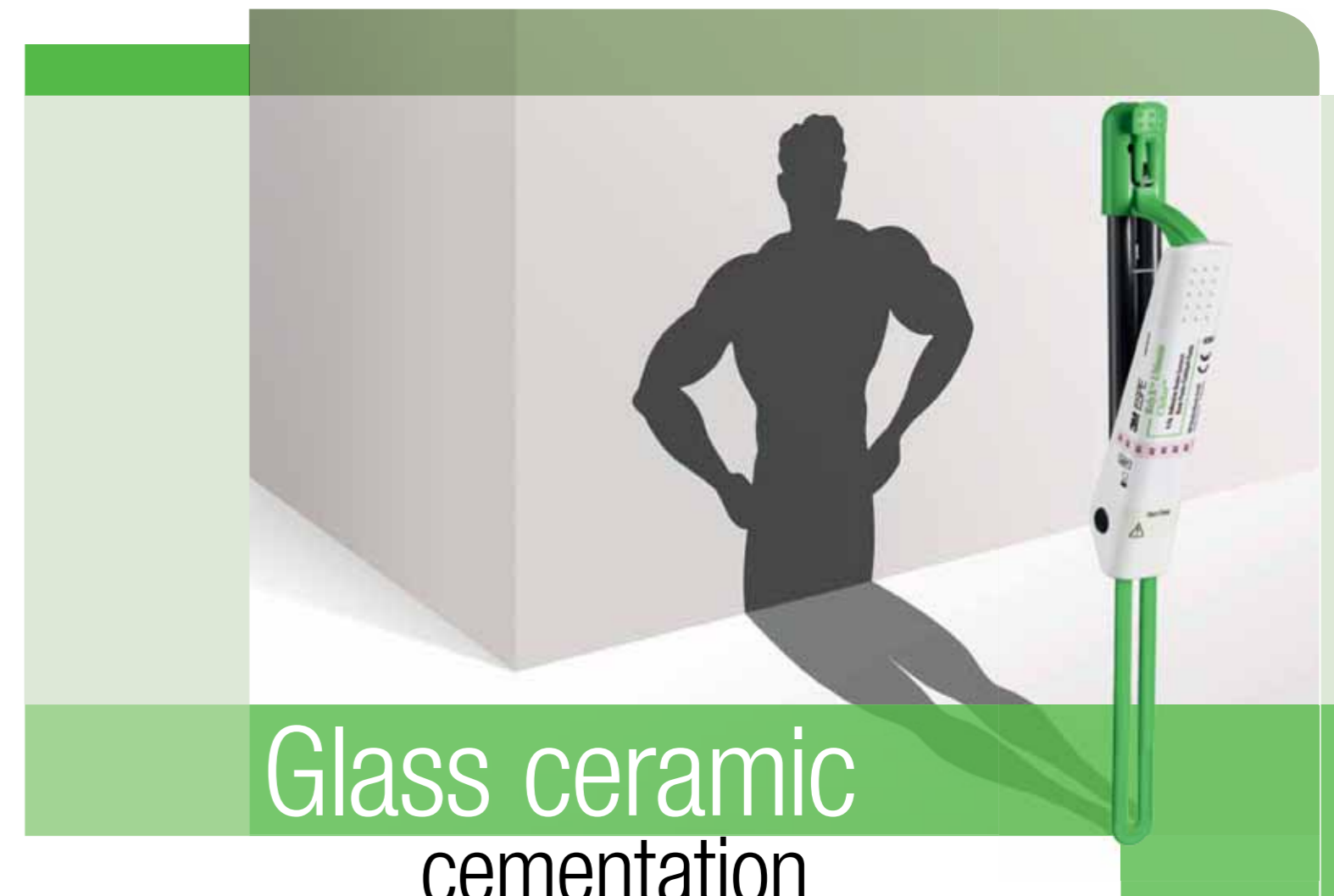
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Cementation Solutions

RelyX™ Ultimate Clicker™  
Adhesive Resin Cement



Glass ceramic  
cementation  
has a new hero



# Ultimate strength for highest aesthetics

RelyX™ Ultimate Cement in the Clicker™ Dispenser is an innovative dual-cure, adhesive resin cement from 3M™ ESPE™. The cement was developed with the specific needs of highly aesthetic like glass ceramic cementation in mind. RelyX Ultimate cement ensures uncompromising results by offering ultimate bond strength in a simplified procedure.

*“Very simple to use!”*

Dr. Girish, India

*“The best cement system that I have worked with so far!”*

Dr. Subramanian, India



RelyX Ultimate cement is particularly suited for CAD/CAM restorations.

RelyX Ultimate cement covers the whole spectrum of indirect indications with the final cementation of:

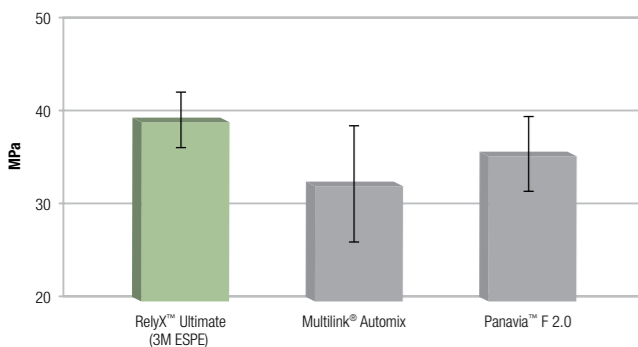
- All-ceramic, composite or metal inlays, onlays, crowns and bridges; 2–3-unit Maryland bridges and 3-unit inlay/onlay bridges\*
- All-ceramic, composite, or metal restorations to implant abutments
- Posts and screws
- All-ceramic or composite veneers

\*Excluded for patients with bruxism or periodontitis.

## A real hero in terms of bond strength.

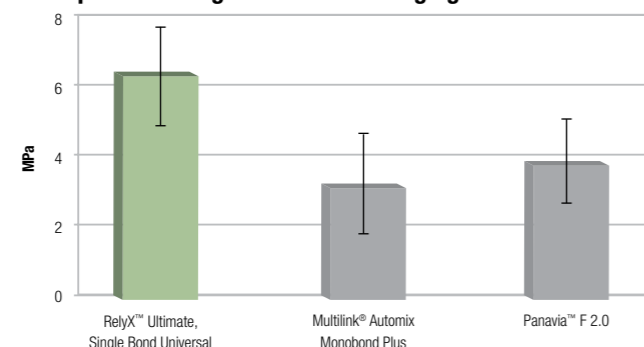
The ultimate bond strength and ease-of-use make RelyX Ultimate cement ideal for the cementation of highly aesthetic like glass ceramic restorations. Internal and external test data show excellent adhesion to both dentine and enamel.

### Shear bond strength of resin cements to enamel



Shear bond strength to enamel after 24 h storage, cement was light cured. Source: C. Decoteau, M. Ogledzki, G. Kugel, and R.D. Perry; Tufts University, Boston, USA, IADR/AADR 2011, # 375

### Bond strength to teeth and zirconia: pull off strength after artificial aging



RelyX™ Ultimate Cement was used with Single Bond Universal Adhesive (no extra light curing), the other materials with their respective primers. Zirconia was sandblasted (< 50µm) before priming, teeth were prepared with non-retentive preparations, all cements light cured. Measurement after artificial aging with mechanical loading (100,000 x 20 N) and thermocycling (10,000 x 5–55° C). Source: O. Cal, D. Cakir, P. Beck, L. Ramp, and J. Burgess, University of Alabama at Birmingham, Birmingham, USA, AADR 2012, #1010

## Fewer components – easier to use.

RelyX™ Ultimate Cement was designed for optimal performance when combined with Single Bond Universal Adhesive (3M ESPE) which functions not only as a self-etch or total-etch adhesive, but also as a primer for most restoration surfaces. The RelyX Ultimate formulation itself contains a dark-cure activator for Single Bond Universal adhesive which eliminates the need for a separate activator and saves you unnecessary steps. Fewer components, fewer working steps: means not only easier handling but also less risk of errors. Last but not least, it reduces your inventory.

### Benefits of RelyX™ Ultimate Clicker™:

- Dual-cure cement with ultimate bond strength
- Ease of use: only two components, lower number of procedural steps
- Outstanding aesthetics: high marginal integrity, wear resistance and natural fluorescence
- Less waste and controlled dosage of material due to Clicker™ delivery

### Benefits of Single Bond Universal Adhesive:

- Combined total-etch and self-etch bonding capability
- Integrated primers for glass ceramics, oxide ceramics and metal
- Consistent bond strength to both moist- and dry-etched dentine
- Virtually no post-op sensitivity in total-etch and self-etch modes



<b>Multilink® Automix</b>	Cement	+	Adhesive Primer A Adhesive Primer B Restoration Primer	= 4
<b>Panavia™ F 2.0</b>	Cement Paste A Cement Paste B	+	Adhesive Primer A Adhesive Primer B Alloy Primer Ceramic Primer	= 6
<b>Variolink® II with Syntac</b>	Cement Base Cement Catalyst	+	Adhesive Primer Adhesive Bond Restoration Primer	= 6
<b>NX3 with OptiBond® Solo Plus™/All-in-One</b>	Cement	+	Total-etch Adhesive or Self-etch Adhesive Silane	= 3

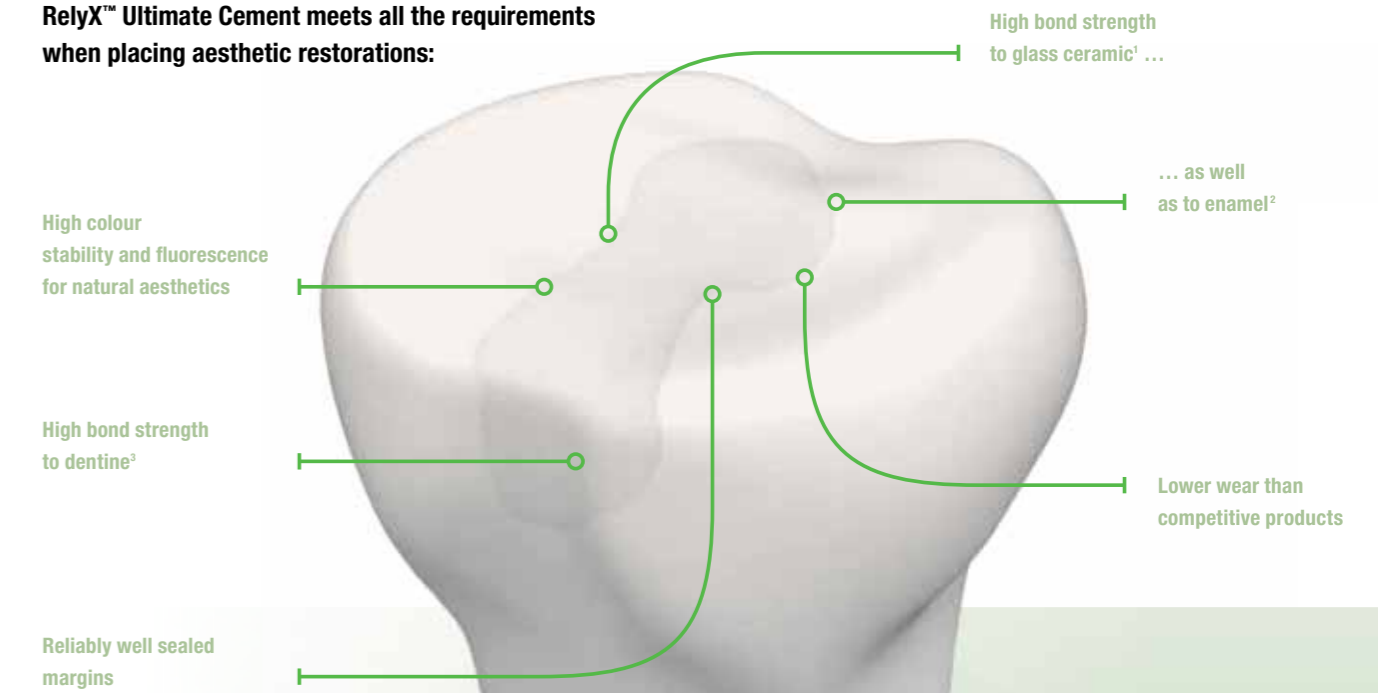
## High marginal integrity and wear resistance.

An aesthetic restoration requires high marginal integrity. Besides high bond strength, strong mechanical and sealing properties are needed. RelyX™ Ultimate Adhesive Resin Cement is optimized for a high wear resistance. This ensures a good marginal seal over the life time of the restoration.

After chewing simulation and thermocycling the marginal integrity of Empress 2 MOD inlay restorations was investigated by dye penetration and topological SEM analysis. The control group Multilink Automix showed statistically higher dye penetration than RelyX Ultimate cement independently of the luting protocol (Behr et al. University of Regensburg, Germany).

When compared to other resin cements and flowable filling composites, RelyX Ultimate cement shows the lowest three-body wear against the benchmark Filtek™ Z250 from 3M ESPE. (Source: C. Kleverlaan, ACTA University, Netherlands).

### RelyX™ Ultimate Cement meets all the requirements when placing aesthetic restorations:



<sup>1</sup> Adhesion to feldspathic glass ceramic (e.g. VITA Mark II)

<sup>2</sup> Light cured, adhesion to bovine enamel, after artificial aging, IADR CED 2011 #430

<sup>3</sup> Light cured, adhesion to bovine dentine, after artificial aging, IADR CED 2011 #430

## High colour stability for natural aesthetics.

RelyX Ultimate cement uses a modern initiator technology, which is free of aromatic amine components to ensure colour stability. Compared to other leading products, RelyX Ultimate shows the lowest discolouration after incubation in coffee solution. For brilliant natural colour imitation, a dye has been added to the cement to create tooth-like fluorescence.



Fluorescence of RelyX™ Ultimate Clicker™ Cement. Source: Courtesy of Dr. Paolo Monteiro