ULTRACEM
resin-reinforced glass ionomer cement

ULTRADENT

STRENGTH
YOU CAN RELY ON

UltraCem cement offers the highest bond strengths its category—it is more retentive than other leading RMGI cements on precious alloy crowns.[1] It provides sustained fluoride release and the flowable viscosity and low film thickness won't compromise fit or occlusion.

UltraCem cement is available in a traditional hand-mix bottle kit, an economical choice that gives clinicians control over the viscosity and amount of material used.

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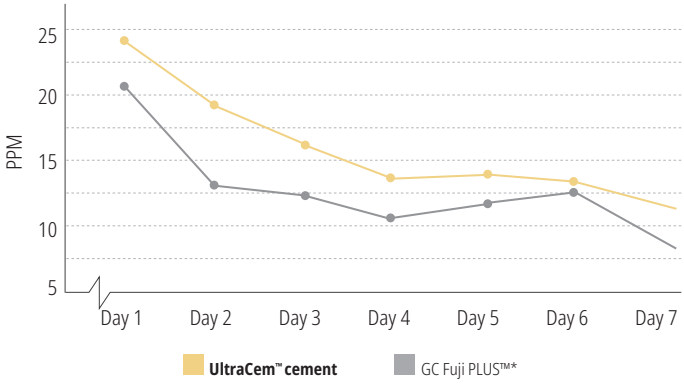
Technical Data[2]

Compressive strength	139.3 MPa
Knoop hardness	17.77 HK
Water sorption	244.3 µg/mm^3
Shear to cut enamel	12.60 MPa
Shear to dentin	10.89 MPa
Film thickness	24.0 µm
Working time	1–3 min.
Setting time	≤ 5 min. at 37° C

Comparative Testing[3]

	METAL SHEAR BUTTON	CROWN PULL	FILM THICKNESS
UltraCem™ cement	10.89 MPa	5.22 MPa	24.0 µm
GC Fuji PLUS™*	4.76 MPa	3.91 MPa	17.6 µm
3M RelyX™* Luting	5.12 MPa	4.59 MPa	36.9 µm
3M Ketac-Cem™*	3.65 MPa	2.27 MPa	25.8 µm

Fluoride Release – One Week[4]



Use UltraCem cement for luting indirect restorations—including inlays, onlays, crowns, and bridges made of metal, porcelain fused to metal, zirconia, and resin—to natural teeth. It may also be used for cementation of orthodontic bands to enamel.

Tips for Zirconia Restorations Body

For best results with zirconia restorations, first sandblast the inside of the prosthesis with 50 micron aluminum oxide at 50–80 PSI and air clean. Do not rinse and do not use an etchant on prosthesis. Etch the tooth and apply Peak™ Universal Bond adhesive to the preparation and scrub for 10 seconds. Thin aggressively with air and vacuum. Light cure for 10 seconds with a VALO™ curing light on Standard Power mode.

- Never use phosphoric acid to clean zirconia, as it will significantly reduce bond strengths
- Do not use a zirconia primer with UltraCem cement, as it will significantly reduce bond strengths

2056 - UltraCem Liquid-Powder Bottle Kit

1 x 15 g bottle of powder
1 x 8.6 ml bottle of liquid
1 x Mixing pad
1 x Measuring spoon
1 x Spatula

1. Pameijer CH. Crown retention with three resin modified glass ionomer luting agents. *J Am Dent Assoc*. 2012;143(11):1218–1222. 2. Data on file. 3. Data on file. 4. Data on file.
* Registered trademark of a company other than Ultradent.

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