

Fuji BULK

Rapid, Robust, Remarkable.

GC

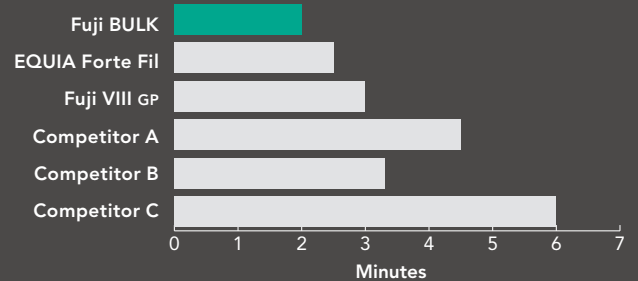
New Fuji BULK – it's truly remarkable

Fuji BULK is a robust, rapid-setting, multipurpose auto-cure glass ionomer cement (GIC) designed to meet the challenge of bulk placed restorations in more acidic oral environments. Truly remarkable in its formulation, Fuji BULK provides a unique balance between restoring function and protecting surrounding tooth surfaces from acid challenges.

The fastest setting auto-cure GIC

No conventional glass ionomer cement sets quicker than Fuji BULK, giving you freedom to move faster without compromising working time, cavity adaptation, adhesion or handling. Fuji BULK quickly seals and restores and is ready for final finishing just 2 minutes after start of mix.

Final set time (moisture critical time)



A truly robust multipurpose GIC

Fuji BULK is a perfect choice for:

- Paediatrics
- Geriatrics
- Special needs
- Dry mouth patients
- Transitional restorations
- Caries-active patients
- Patients with erosion
- Exposed root surfaces

Fuji BULK is available in a universal shade and is indicated for any restoration where speed, acid resistance and bulk cure are priorities over aesthetics.



Fuji BULK was used to restore an exposed root surface in a polypharmacy elderly patient with a dry mouth.

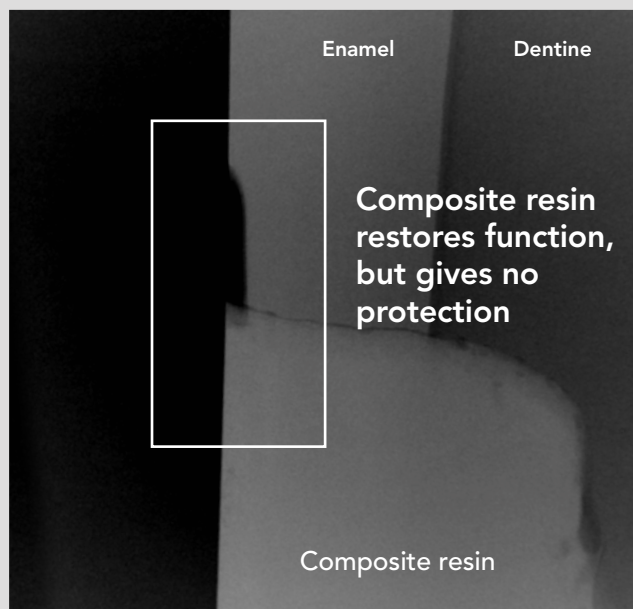
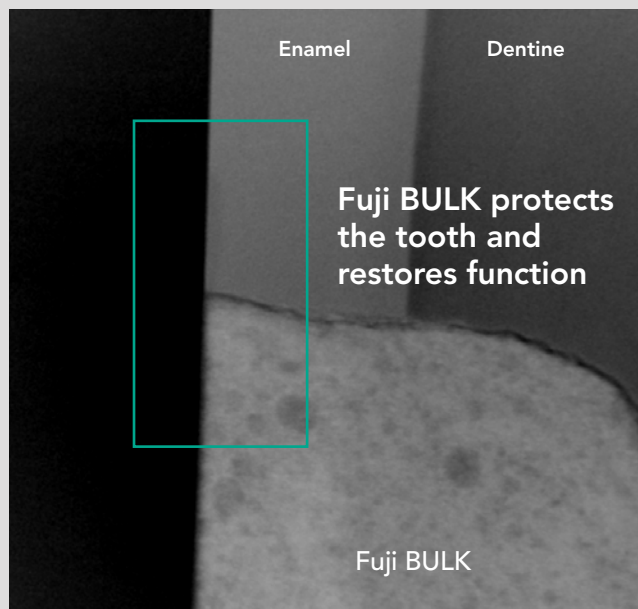
Dr G Millicich

Fuji BULK strengthens and protects surrounding tooth structures

Fuji BULK was designed with hostile oral environments in mind, recognising the growing need for a bulk-cure, self-adhesive restorative that could **provide a balance between restoring function and protecting surrounding and adjacent tooth surfaces.**

Fuji BULK could be your first choice as a base in the sandwich technique, is perfectly suited to geriatric and paediatric restorations, and its speed of set makes it ideal for emergency, transitional or stabilisation procedures.

pH 4.0 lactic acid challenge*



*24 hr acid erosion test (0.1M lactic acid buffer (pH 4.0)) GC R&D

Fuji BULK - For challenging oral environments

When moisture control is compromised

Fuji Bulk's very rapid set and short moisture critical time (2 min.), reduces the risk of moisture contamination during formation of the GIC matrix. This is invaluable in clinical situations where moisture control might be compromised and yet a higher quality and robust GIC restoration is desired (e.g. paediatrics, geriatrics, special needs patients).

Choosing glass ionomer cement

In many clinical situations, choosing to restore with a glass ionomer cement is the best option from the tooth's perspective. GC's restorative glass ionomer cements are first and foremost developed to be moisture-friendly, exceptionally durable adhesives, ensuring the formation of a strong, chemically fused seal to dentine and enamel.



1 Exposed root surface



2 Clean and condition for 10 sec. with CAVITY CONDITIONER, rinse and gently dry.



3 After 10 sec. mixing, apply Fuji BULK direct to the cavity.

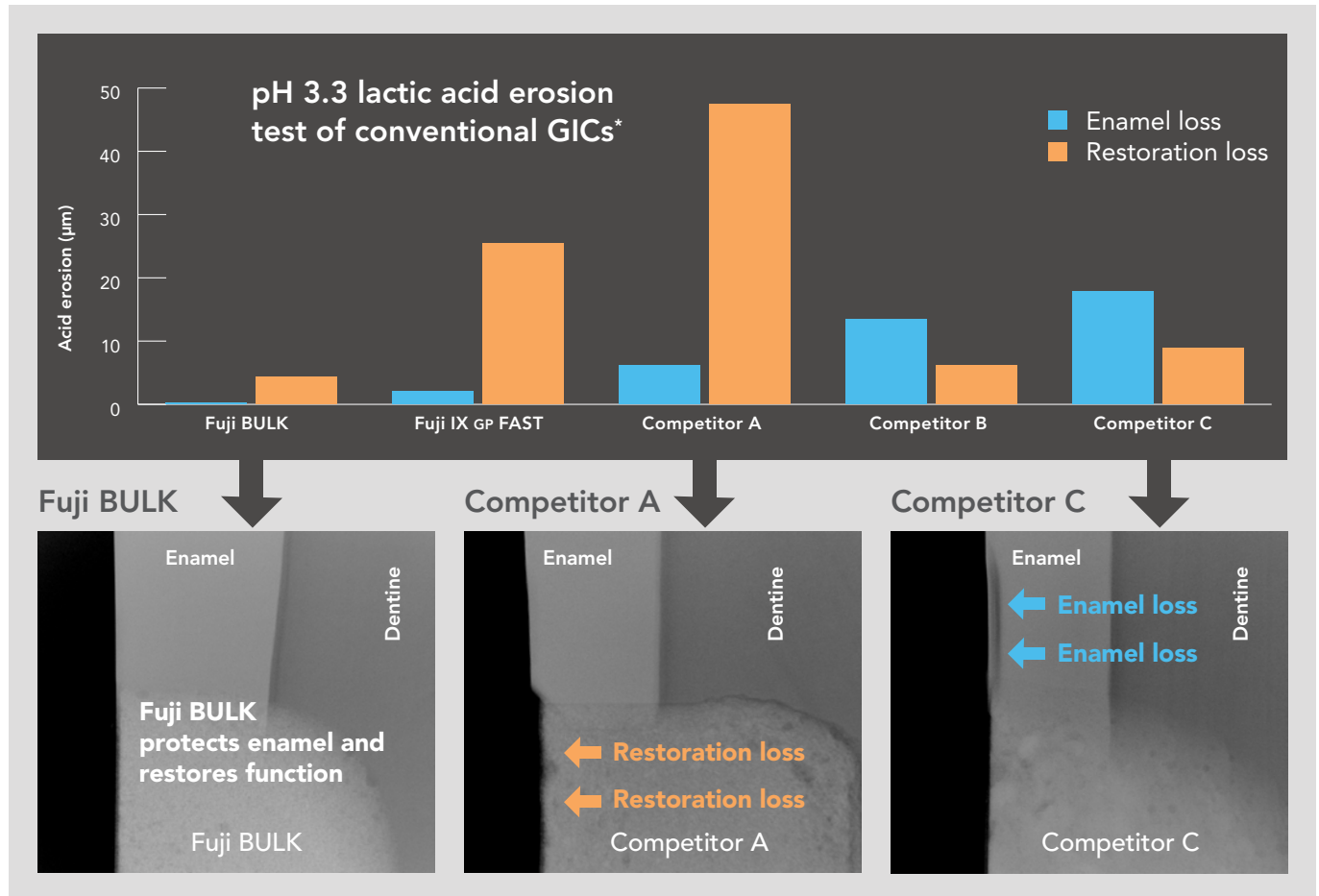


4 Fuji BULK is finished with high speed under water spray 2 min. after start of mix.

The most acid-resistant conventional GIC

The biggest challenge for a glass ionomer cement is being able to protect surrounding and adjacent tooth structures, while being robust enough to maintain its own form and function in acidic environments.

Due to its remarkable formulation, Fuji BULK does this better than any other conventional GIC .

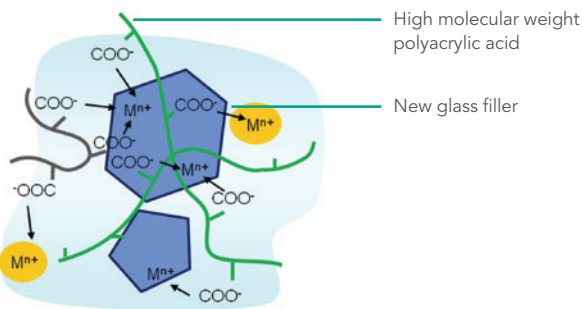


*24 hr acid erosion test (0.1M lactic acid buffer (pH3.3)) GC R&D

Q&A

1. What is different in the chemistry of Fuji BULK?

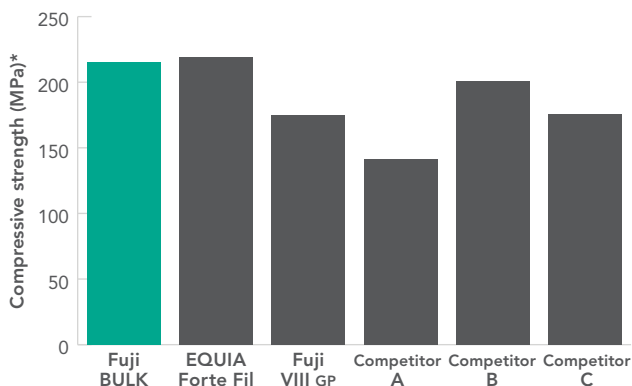
The development of a purpose-designed glass filler and a new higher molecular weight polyacrylic acid enabled GC to deliver the increased acid resistance and rapid setting characteristics of Fuji BULK.



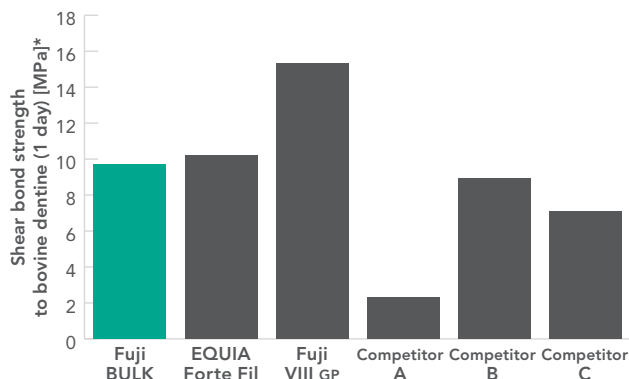
2. How does the wear resistance of Fuji BULK compare to EQUIA Forte Fil?

Both Fuji BULK and EQUIA Forte Fil were developed using GC's latest glass ionomer technologies, which deliver superior physical properties. Both exhibit excellent wear resistance, which is further enhanced when EQUIA Forte Coat is applied.

3. How does the compressive strength of Fuji BULK compare to other GICs?

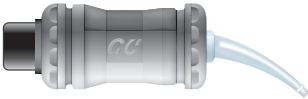






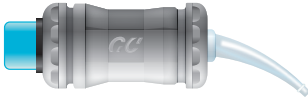







4. What is the dentine bond strength of Fuji BULK?



* R&D Dept. GC Corporation

5. Where can I best use Fuji BULK and other glass ionomer restoratives from GC?

Product	Features	Primary indication		
Fuji BULK Conventional auto-cure GIC 	<ul style="list-style-type: none"> • Rapid set • Acid resistance • Radiopacity • 1 shade 	Any restoration where speed, acid resistance and bulk cure are priorities over aesthetics.	 	Dr G Millich, NZ
EQUIA Forte™ Fil & Coat Conventional auto-cure GIC & LC Coat  	<ul style="list-style-type: none"> • Strength • Aesthetics • Wear resistance • 8 shades 	Proven system for occlusal restorations*	 	Dr G Millich, NZ
Fuji VIII GP Resin reinforced auto-cure GIC 	<ul style="list-style-type: none"> • Easy to handle • Tough • Quick setting • 3 shades 	Open and closed sandwich restorations	 	Dr J Smithson, UK
Fuji II LC Resin reinforced dual-cure GIC 	<ul style="list-style-type: none"> • Aesthetics • Light-cure • Strong adhesion • 11 shades 	Class V restorations	 	Dr S Saito, Japan

This is a guide only. Material selection is defined by patients' characteristics, GIC's physical properties and clinicians' handling preferences. GC's endless pursuit for the ultimate in quality ensures you are selecting products for your patients that have the highest levels of quality, reliability and performance.

*Gurgan S, Kutuk ZB, Firat E, Cakir Y, Oktas SS. 60-Month Clinical Performance Of A Glass-Ionomer Restorative System. J Dent Res 2014; 93 (Spec Issue B): 89.

Product	Fuji BULK	EQUIA Forte Fil	Fuji VIII GP	Competitor A	Competitor B	Competitor C
Mixing time (from IFU)	10"	10"	10"	10"	10"	15"
Moisture critical time (from IFU)	2'00"	2'30"	3'00"	4'30"	3'30"	6'00"
Compressive Strength [MPa]*	215±20	219±16	175	141±15	200±28	176.3±5
Flexural Strength [MPa]*	44±5.8	43±4.0	54	32±2.0	44 ±4.5	50±28
Flexural Energy [MPa]*	0.06	0.06	0.22	0.04	0.05	0.12
Wear resistance [µm]†	27±3.8	20±5.4		21±4.9	27±4.1	44±8.5
- with EQUIA Forte Coat	12±7.6	11±5.3				
Radiopacity [mm]°	3.3	2.2	2.9	2.5	3.0	2.7
Shear Bond strength [MPa]#						
- Bovine enamel (1 day)	9.0±0.7	10.3±0.3	22.8±2.9	6.8±0.9	10.4±2.2	9.9±3.0
- Bovine dentine (1 day)	9.7±0.7	10.2±0.5	15.3±3.4	2.3±1.3	8.9±1.7	7.1±0.3

*Test method based on ISO9917-1: 2007 †in house test, bovine enamel, 20,000 cycles. °Equivalent aluminium thickness. # Ultradent Method. GC R&D



Fuji BULK

Box: 50 capsules
Shade: Universal



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