

PORCELAIN-FUSED-TO-METAL CROWNS



Prep cleaned, rinsed, and excess moisture removed.

NOTE: For cases where increased retention is required, apply Fuji Plus Conditioner; then rinse.



PFM crowns cemented with Fuji Plus. Excess cement should be removed quickly.

PORCELAIN-FUSED-TO-METAL BRIDGE



Cores treated with Conditioner, rinsed, and excess moisture removed.



Fuji Plus applied to bridge.



Bridge placed and cemented with Fuji Plus.

OTHER EXAMPLES



Bonding all metal crowns to tooth structure.



Bonding multiple unit PFM bridge. Refrigeration is recommended to extend the working time of Fuji PLUS Capsules.

GC Fuji Plus™

Resin Reinforced Glass Ionomer Cement



Fuji Plus is the easy-to-use, resin reinforced glass ionomer luting cement with remarkable strength, sustained fluoride release and excellent biocompatibility.

Used primarily for final cementation of crowns and bridges, Fuji Plus bonds metal and porcelain-fused-to-metal restorations¹ to tooth structure and all types of core build-up materials.

Now you can apply "Twice The Bonding Technology" to virtually any restoration.

Product Code

- 431052** Fuji Plus Capsules No Etch Package
Contains: 50 Fuji Plus Capsules and Applier
- 431050** Fuji Plus 50-Capsule Refill Package
- 000238** GC Capsule Applier II (Metal)
- 435891** GC Capsule Applier III (Metal)
- 431101** Fuji Plus Powder-Liquid No Etch Package
Contains: One bottle powder (15 gm), one bottle liquid (7 ml), mixing pad and double-ended scoop.
- 431011** Fuji Plus 1:1:1 Kit
Contains: One bottle powder (15 gm), one bottle liquid (7 ml), one bottle Fuji Plus Conditioner (6.5 ml), mixing pad and double-ended scoop.
- 431012** Fuji Plus Powder Refill (15 gm bottle)
- 431091** Fuji Plus Liquid (7 ml bottle)
- 000221** Fuji Plus Conditioner (6.5 ml bottle)
- 435095** Mixing Pads (3"x3-3/4"), pkg. of 5 pads, 50 sheets each
- 434291** Glass Ionomer Mixing Spatula

GC Fuji Plus™



Resin Reinforced
Glass Ionomer Cement

For Final Cementation

FUJI PLUS Rules



Case photos courtesy of Larry D. Herwig, D.D.S., Nels Ewoldsen, D.D.S. M.S.D., Kimberly Bush, D.D.S. and Barbara LaMere-Hech, D.D.S.



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Advancing the Art and Science of Dentistry

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Fuji Plus™

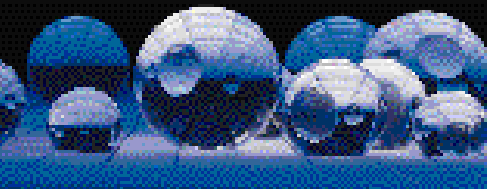
Resin Reinforced
Glass Ionomer Cement



Great handling, outstanding bond strengths and superior fluoride release. Easier, faster and better.

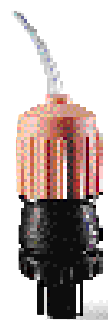
Fuji PLUS is designed for the final cementation of metal and porcelain-fused-to-metal restorations¹, including crowns, bridges, inlays and onlays, to tooth structure and all types of core build-ups. Fuji PLUS also seals restorations, reduces sensitivity and microleakage and promotes remineralization. You'll find that it's extremely easy-to-use, has remarkable strength, sustained fluoride release and excellent biocompatibility.

TWICE THE BONDING TECHNOLOGY



- Advanced resin-ionomer matrix
- High Bond Strengths without Etching
- Added flexibility for fracture toughness

Fuji Plus gets its remarkable strength, fracture toughness and versatility by design. This breakthrough cement combines the technological advances of GC glass ionomers with resin reinforcement to produce an advanced resin-ionomer matrix. Strong physical properties and durability are the result of the chemical bonding reaction plus the micro-mechanical interlock of the resin.



Activate.



Triturate 10 seconds.



Load capsule in applicler.



Apply Fuji Plus.

ALL THE ADVANTAGES OF A TRUE GLASS IONOMER

- Sustained High Fluoride Release
- Thermal Expansion similar to Dentin
- Biocompatibility

Fuji Plus chemically bonds to dentin, enamel and cementum providing sustained high fluoride release that can be recharged through the use of fluoride toothpastes, mouthwashes and topical treatments. Research has shown that this high release of fluoride into the tooth helps prevent recurrent decay², and the rapid pH shift toward neutral can decrease sensitivity problems. Its coefficient of thermal expansion is very close to dentin so it expands and contracts just like tooth structure when exposed to heat and cold. This true glass ionomer feature maintains the integrity of the bond, and in conjunction with the high fluoride release, decreases the likelihood of microleakage and decay, assuring a long lasting restoration. Fuji Plus has excellent biocompatibility with pulp and gingival tissue.

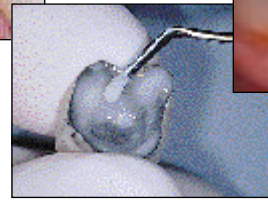
FUJI PLUS CAPSULES

- No Mess Premeasured Capsules
- Easier to Mix - Easier to Use - Saves Time
- Perfect Luting Consistency

Choose Fuji Plus Capsules for the ultimate in convenience and precise delivery. They're easy to use with no hand mixing and never any mess. Just triturate for 10 seconds for the ideal viscosity, place into applicler and dispense the material.



OPTIONAL
For increased retention: Treat core for 20 seconds with Fuji Plus Conditioner, then rinse.



Apply mixed Fuji Plus to inside of porcelain-to-metal crown.

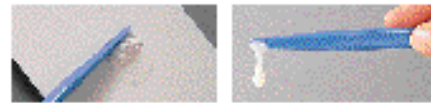


Place crown and quickly remove excess cement.

FAST MIX POWDER-LIQUID

- Self-Wetting Powder-Liquid

Fuji PLUS excellent wetting properties allow one-step mixing in less than 30 seconds. A smooth, creamy texture makes it as easy to apply as it is to mix.



QUICK AND EASY TECHNIQUE

- Simple Placement Technique
- Compatible with a Moist Environment
- No Etch

Final cementation with Fuji Plus is less complicated than the procedure required for composite resin cements. Just mix (or triturate), apply and clean up excess cement after seating the restoration. Since Fuji Plus bonds in a wet field, there's no need to be concerned with moisture control and a complicated technique.

EXCELLENT MARGINAL SEAL

- Clinically Insoluble
- Low Film Thickness

Fuji Plus is clinically insoluble minimizing the possibility of washout. Its low film thickness and extremely hard set improve the integrity of margins, allow castings to seat more easily and reduce the chance of high occlusion.

OPTIONAL FUJI PLUS CONDITIONER

- Removes Smear Layer
- Seals Tubules
- Increases Bond Strength
- Minimizes Chance of Sensitivity

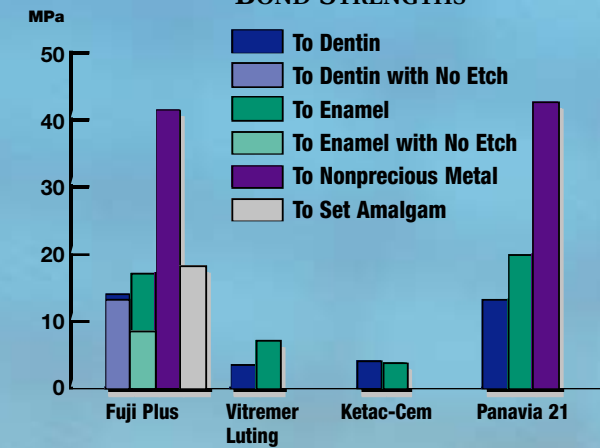
When increased retention is required, optional Fuji Plus Conditioner prepares the surface and seals the dentin tubules. Its mild etchant, citric acid, removes the smear layer and debris. Its ferric chloride component is a proven method of sealing tubules.

1. For indirect metal-free restorations that recommend a resin reinforced / resin modified glass ionomer for final cementation - cementable reinforced all ceramic crowns (e.g. Procera).
2. Caries-Preventative Effect of Glass Ionomer Sealant Application, JADA Vol. 125, May 1994
3. Restorative Materials Containing Fluoride, JADA Vol. 116, May 1988.
4. Compiled from published information unless otherwise specified.
5. GC R&D Testing, Tokyo, Japan.
6. Vitremer, Advance, Panavia 21, C&B Metabond and Ketac-CEM are trademarks of 3M, Dentsply International, J. Morita, Parkell and ESPE respectively.

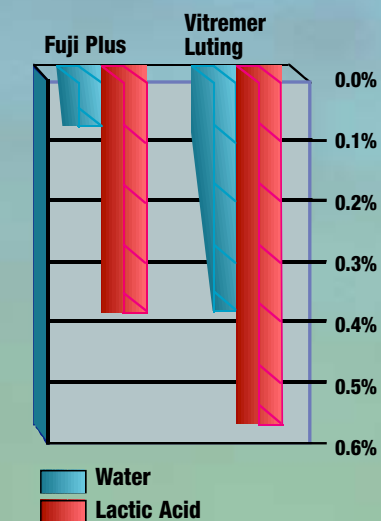
PHYSICAL PROPERTIES⁴

	FUJI PLUS ⁵	VITREMER LUTING ⁶	KETAC-CEM ⁶	PANAVIA 21 ⁵
Consistency (mm)	34	28	33	45
Film thickness (µa)	10	14	17	24
Working time				
Powder-liquid	2'30"	2'30"	-	4'30"
Capsules	2'00"	-	2'30"	-
Setting time(23°C)	5'00"	6'00"	3'00"	8'30"
Compressive Strength (1 day) (MPa)	155(7)	96(5)	120	243(10)
Diametral Tensile Strength (1 day) (MPa)	24(2)	15(1)	6.8	33
Solubility %				
Water	0.07%	0.38%	0.07%	0.03%
0.001M Lactic Acid	0.38%	0.57%	-	0.02%
Radiopacity	Yes	Yes	Yes	Yes
Bond Strength (MPa)				
Bovine Dentin (with No Etch)	14(2)	3.0	3.7	13(5)
Bovine Enamel (with No Etch)	13.4	-	-	-
Nonprecious (Rexillum III)	17(3)	7.0	3.8	20(4)
Amalgam set ⁵	9.5	-	-	-
	42(8)	NA	-	43.9
	18(3)	NA	-	-

BOND STRENGTHS



SOLUBILITY



COMPRESSIVE AND TENSILE STRENGTHS

