



Bonding Materials



Global Experts in Orthodontics

03

GC Orthodontics
GLOBAL EXPERTS IN ORTHODONTICS

Bonding Materials

Adhesives and Cements

GC Ortho Connect™ Light Cure Orthodontic Adhesive	135
GC Fuji ORTHO™ LC	136
GC Fuji Automix Dispensers	137
GC Fuji ORTHO™ SC	137
GC KommonBase™	137
G-Aenial™ Universal Flo	138
G-Aenial™ Universal Injectable	138
G-Premio Bond™	138
GC Fuji Ortho Band LC and Fuji Ortho Band	139
Fuji 1 - Enhanced, Self-Cured Luting Cement	140

Other Bonding Materials

GC Mixing Pads and Fuji Spatula	140
Microbrushes	140
GC Ortho Gel Conditioner	140
GC Ortho Etching Gel	140



Bonding Materials

GC Ortho Connect™

A One step light cure adhesive with the same viscosity as leading materials only with greater strength and flexibility without the need for Primer. An easy, efficient, and effective way to Connect with GC Ortho Connect.

Description	PART NUMBER
2 syringes of 2.9g, 4 dispensing tips, 2 light protective covers	90-1100-0000
Ortho Connect Dispensing Tips (5/pkg)	90-1107-0000

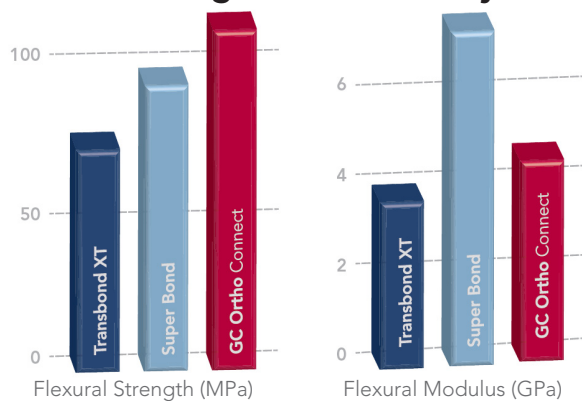


Light Cure Orthodontic Adhesive

1. One Step System

No need to apply primer or adhesive on the tooth, as it is already incorporated into the paste. A simple etching of the enamel followed by drying is enough to prepare the bracket or buccal tube for bonding.

2. Bond Strength and Flexibility



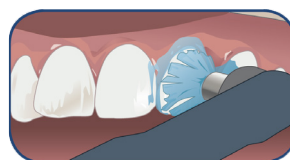
Excellent bond strength Reduced bond failures

Flexural strength: Fundamental to withstand and override mastication pressures. Excellent bond strength with good adhesive clean up on debonding.

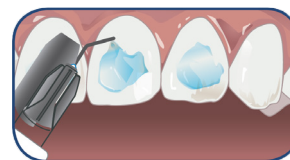
GC Ortho Connect has excellent shock absorbing properties. The low elasticity ensures that the material does not flex at the adhesive/base interface which would cause bond failure.

3. Safe Bonding with

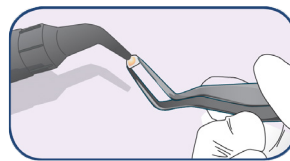
- Metal brackets & bondable buccal tubes
- Ceramic brackets
- Plastic and Hybrid brackets



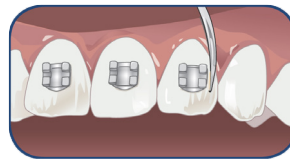
1. Clean tooth surfaces with pumice and water. Rinse thoroughly with water and dry.



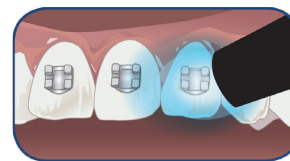
2. Etch the tooth surfaces with GC Ortho Etching Gel for 30 seconds, rinse and dry.



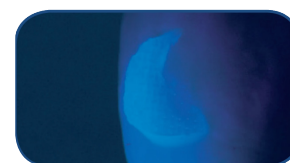
3. Coat the bonding surface of the bracket with GC Ortho Connect paste.



4. Remove the excess adhesive using an explorer or scaler.



5. Cure each bracket for 10 seconds mesially and distally with an LED curing light.



Bonus: Excessive adhesive is detected by a black light, which aids in fast and efficient cleanup.

Bonding Materials

GC Fuji ORTHO™ LC Automix

Paste-Paste Dual Cure Glass Ionomer Cement for Orthodontic Bonding


The renowned GC Fuji ORTHO LC is now also available in an ultra-convenient automix delivery system. In addition to the convenience of light-curing, you also enjoy the freedom of choice of quantity, but always with guaranteed correct mixing ratios. The well-balanced bond strength ensures that brackets will be reliably retained throughout the treatment but are easy to remove. In addition, the enamel is protected by the sustained and rechargeable fluoride release, significantly reducing the risk of white spots developing during orthodontic treatment.

Characteristics & Benefits:

- Cartridge delivery system reduces preparation time
- Optimal handling with choice between easy handmix or automix
- Controlled dosage ensuring the right quantities for every indication
- Convenient direct application on brackets using the automix tips
- Light-curing within 20 seconds
- Excellent adhesion, even in a moist environment
- Optimal fluoride release
- Easy removal of brackets, avoiding enamel fractures



Packages

GC Fuji ORTHO™ LC Automix			
	Description	Quantity	PART NUMBER
	Starter Set	1 x 13.3 g (7.2mL) Cartridge, 20 x GC Paste Pak Dispenser, GC Mixing Tip for LC, 2 x 1.4g (1.2 mL) GC ORTHO GEL CONDITIONER Syringe, 15 x Brush Tips	439487
	Automix Set	1 x 13.3 g (7.2mL) Cartridge, 20 x GC Mixing Tip for LC, 2 x 1.4g (1.2 mL) GC ORTHO GEL CONDITIONER Syringe, 15 x Brush Tips	003102
	Refill	Contains: Two cartridges (13.3 g; 7.2 mL) and 1 mixing pad.	003103
	Mixing Tips	Mixing Tip for LC, 20 pcs	423008

GC Fuji ORTHO™ LC

Dual Cure Resin Modified Glass Ionomer Cement For Orthodontic Bonding



For bonding of orthodontic brackets and bands, light-curing provides extended working comfort.

Characteristics & Benefits:

- Light-curing within 40 seconds
- Excellent adhesion, even in a moist environment
- Easy application
- Easy removal of orthodontic appliances, avoiding enamel fractures
- Long-term fluoride release
- No discoloration





Packages

GC Fuji ORTHO LC Powder/Liquid			
	Description	Quantity	PART NUMBER
	Introductory Package	(1 x 15 g Powder, 1 x 6.8 mL Liquid, 1 x Scoop & 1 Mixing Pad)	439401
	Standard Package	(1 x 40 g Powder, 2 x 6.8 mL Liquid, 1 x Scoop & 1 Mixing Pad)	439403
	Refill - Powder	Refill 40 g Powder	000029
	Refill - Liquid	Refill 6.8 mL Liquid	000030
GC Fuji ORTHO LC Capsules (mixed volume per capsule 0.10mL)			
	Description	Quantity	PART NUMBER
	Starter Package	(50 x capsules, 1 x GC Ortho Conditioner, 1 x Capsule Applicator)	439451
	Refill - Capsules	Box of 50 Capsules	439450
	Ortho Gel Conditioner	ORTHO GEL CONDITIONER, 23.8 mL Liquid	001820



GC Fuji Automix (Paste Pak) Dispensers

Both work with all GC Paste Paks to dispense material, while the ergonomic Paste Pak Dispenser II is stable, light-weight, easy-to-extrude, and fits perfectly even in smaller hands.

Paste Pak Dispenser			Paste Pak Dispenser II		
	Quantity	PART NUMBER		Quantity	PART NUMBER
	each	001573		each	009293

GC Fuji ORTHO™ SC

Self Cure Glass Ionomer Cement For Orthodontic Bonding


An ideal combination of the properties of composites and glass ionomer cements for bonding orthodontic appliances.

Characteristics & Benefits:

- Excellent adhesion, even in a moist environment
- Easy application
- Easy removal of orthodontic appliances without damage to enamel
- Self-curing
- Long-term fluoride release
- No discoloration




Packages

GC Fuji ORTHO™ SC Automix			
	Description	Quantity	PART NUMBER
	Introductory Package	1-2 Pack (1 x 40 g Powder, 2 x 6.8 mL Liquid & Accessories)	439503
	Standard Package	Refill 40 g Powder	000209
	Refill - Powder	Refill 6.8 mL Liquid	000210
	Ortho Gel Conditioner	ORTHO GEL CONDITIONER, 23.8 mL Liquid	001820

GC Kommonbase

Improvements in customized base design and bonding materials have led to the development of a precise direct-bonding system called GC KommonBase. The system features a large bonding base that provides precise bracket fit and positioning, while maximizing bond strength. No transfer trays are needed because of the base's self-positioning shape. In addition, by using a reference jig, single brackets can be rebonded in case of failure or the need for repositioning.




GC Kommonbase			
	Description	Quantity	PART NUMBER
	Kommonbase HV Clear (High Viscosity)	2 Syringes of 2.7 g. 4 Dispensing Tips & 1 Light Protective Cover	90-1200-0000
	Kommonbase LV Pink (Low Viscosity)	2 Syringes of 2.7 g. 4 Dispensing Tips & 1 Light Protective Cover	90-1300-0000
	Dispensing Tips III	30 pcs.	004634

Bonding Materials

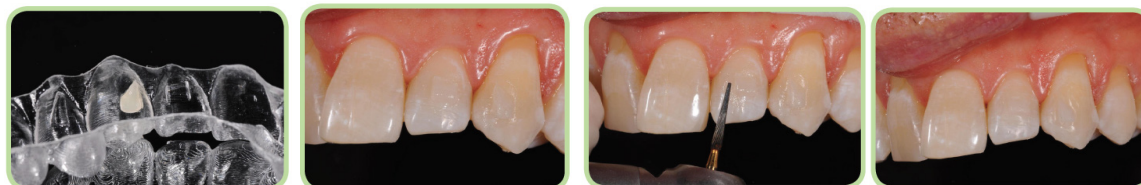
G-æniel™ Universal Flo

G-æniel Universal Flo was released in 2011 as the first universal application, high strength flowable composite resin. It has been ideal for creating aligner attachments with excellent clinical outcomes (exceptional aesthetics, no flash, ideal flow without being runny, high strength and no porosities) and most importantly a significant reduction in application time helping further improve the cost effectiveness of the aligner treatment procedure.

	Description	Quantity	PART NUMBER
	G-æniel Universal Flo A1	1 Syringe (2 mL/3.4 g per syringe)	004202
	G-æniel Universal Flo A2	1 Syringe (2 mL/3.4 g per syringe)	004203
	Dispensing tips III	30 pcs. (plastic)	004634
	Dispensing tips III, Needle Tip	30 pcs. (metal)	004635



1. Invisalign attachment template
 2. Teeth are cleaned with pumice, then etched with phosphoric acid for 30 secs, wash and dry.
 3. Apply G-BOND, leave 5-10 secs, dry with MAXIMUM air for 5 sec's. Light cure for 10 secs.
 4. G-æniel Universal Flo
 5. G-æniel Universal Flo, shade AE is used to fill the attachment space in the template. Application is controlled to avoid overfilling.




6. Once the template is placed in the mouth, the composite is light cured for 20 seconds, the template is then removed.
 7. Attachments in position, following template removal.
 8. Excess flash is removed with a tungsten carbide bur.
 9. Completed Invisalign attachments after final polishing.

Dr Anthony Miak, Sydney NSW

G-æniel™ Universal Injectable




G-æniel™ Universal Injectable is a radiopaque, injectable high-strength ultra-fine particle composite. Ideal for aligner attachments, lingual retainers and indirect bonding, it features total control with no slumping, stringing or flash. Resistant to discoloration, it comes in a 2-syringe kit with 10 long dispensing tips and 10 short dispensing tips.

	Description	Quantity	PART NUMBER
	G-æniel Universal Injectable A1	Two 1.7g (1.0mL) syringes, 10 long & short tips	012364
	G-æniel Universal Injectable A2	Two 1.7g (1.0mL) syringes, 10 long & short tips	012365
	G-æniel Universal Injectable JE	Two 1.7g (1.0mL) syringes, 10 long & short tips	012376
	G-æniel Universal Injectable AE	Two 1.7g (1.0mL) syringes, 10 long & short tips	012377
	Dispensing tips (Long Needle)	20 pcs.	012281

G-Premio Bond™

G-Premio BOND is a universal, 8th generation bonding agent that is compatible with total-etch, self-etch and selective etch techniques providing excellent versatility. Fast application (10 seconds). Stability with extended working times (up to 5 minutes).

	Description	Quantity	PART NUMBER
	G-Premio Bond Kit	1 bottle (5mL), 50 disposable applicators, 20 disposable dispensing dishes	009275
	G-Premio Bond Refill	1 x 5 mL bottle	009277
	G-Premio Bond Unit Dose Refill	50 unit doses (0.1 mL) 50 disposable applicators (fine)	009276



GC Fuji ORTHO™ BAND LC (Automix)

Dual Cure Resin Modified Glass Ionomer Cement for Bonding Bands


The dual cured GC Fuji ORTHO BAND LC was specifically developed for the bonding of bands and appliances. The material is easy to mix because it comes in the ultra-convenient automix delivery system. The blue paste color and the controlled setting by light-cure all add up to an orthodontic cement that is convenient to apply. The well-balanced bond strength ensures that bands and appliances will be reliably retained throughout the treatment but are nevertheless easily removed. In addition, the sustained and rechargeable fluoride help to protect the enamel and reduces the risk of white spots occurring during orthodontic treatment.

Characteristics & Benefits:

- For bonding of bands and appliances
- Cartridge delivery with controlled dosage ensuring the right quantities for every indication
- Convenient direct application on bands using the automix tip
- Choice between self-curing or light-curing for controlled setting
- Adapted working time of 5 min 30 sec
- Optimal handling
- Blue color for controlled application and removal
- Light-curing within 20 sec
- High fluoride release
- Excellent adhesion, even in a moist environment
- Easy removal of orthodontic appliances, avoiding enamel fractures



Packages

GC Fuji ORTHO™ BAND LC			
	Description	Quantity	PART NUMBER
	Starter Set	2 x 13.3 g (7.2mL) Cartridges, 1 x GC Paste Pak Dispenser, 20 x Mixing Tips, 1 x Mixing Pad	439466
	Refill	2 x 13.3 g (7.2mL) Cartridges, 1 x Mixing Pad	003105
	Mixing Tips	Mixing Tip for LC, 20 pcs	423008

GC Fuji ORTHO™ BAND

Self Cure Glass Ionomer Cement For Bonding Bands


The first paste-paste orthodontic cement in the world, combining expertise in both orthodontic and paste-paste cements. It can also be used for the cementation of appliances retained with stainless steel crowns.

Characteristics & Benefits:

- For bonding of bands and appliances
- Paste Pak cartridge delivery
- Film thickness of just 3µm
- Optimal handling
- High fluoride release
- Blue color
- Easy removal during application and after debonding
- Mixes within 15 seconds and has about 3½ minutes working time with final set after 3 minutes




Packages

GC Fuji ORTHO™ BAND			
	Description	Quantity	PART NUMBER
	Starter Package	2 x 13.3 g (7.2mL) Cartridges, 1 x GC Mixing Pad, 1 x Paste Pak Dispenser and 1 x GC Fuji SPATULA	439460
	Refill	2 x 13.3 g (7.2mL) CartridgeS, 1 x Mixing Pad	001888
	Ortho Gel Conditioner	GC ORTHO CONDITIONER, 23.8 mL Liquid	001820

Bonding Materials

Fuji 1 - Enhanced, Self-Cured Luting Cement

For the final cementation of crown and bridge restorations, and for securing metal inlays, onlays, posts and orthodontic appliances.

	Description	Quantity	PART NUMBER
	Capsule Package	Quantity of 48 Capsules (.33 g of powder; .14 mL of liquid per capsule)	425095
	Liquid Only	One (20 mL) bottle of liquid	901009
	Luting Cement Powder Liquid 1:1 Package	One (20 mL) bottle of liquid, 1 (35 g) powder, mixing pads and 1 scoop	901007
	Powder Only	One (35 g) powder	901008
	GC CAPSULE APPLIER III	each	437555
	GC Fuji Spatula	each	001769

GC Mixing Pads, Fuji Spatula and Microbrushes

	GC Mixing Pads, Fuji Spatula and Microbrushes			
	Description	Quantity	PART NUMBER	
	Mini Mixing Pad, 2.5" x 3"	5/pkg	001414	
	Mixing Pad, 4" x 3" High Gloss	5/pkg	001412	
	Mixing Pad, 4" x 3" Medium Gloss	5/pkg	000234	
	Mixing Pad, 6" x 6"	12/pkg	159112	
	GC Fuji SPATULA	each	434291	
	Microbrushes, Purple	100/pkg	55-0250-0016	
	Microbrushes, Green	100/pkg	55-0250-0026	
	Microbrushes, Blue	100/pkg	55-0250-0039	
	Microbrushes, Peach	100/pkg	55-0250-0046	

GC ORTHO Gel Conditioner

Unique 20% polyacrylic acid gel conditioner designed to mildly condition the enamel before application of a GC orthodontic luting cement. The gel conditioner will clean the surface effectively to achieve increased levels of chemical adhesion, but without causing damage to the enamel. The conditioner is delivered in a syringe with brush tips for easy application.


Characteristics & Benefits:

- Increases bond strength without damaging enamel
- Available in a syringe with brush tips for easy application
- Blue tint for application control



How to Use

Clean tooth surface with pumice and water and then apply GC ORTHO Gel Conditioner for 10 seconds. Rinse thoroughly. Remove excess moisture with wet cotton roll to avoid dehydrating the surface.

GC ORTHO Gel Conditioner			
	Description	Quantity	PART NUMBER
	Kit	3 x 1.4 g (1.2mL) Syringes, 25 x Brush Tip	003104

GC Ortho Etching Gel

Gel etchant makes your bonding procedure safer and reduces waste by eliminating splash and over dispensing of liquid. Specially designed tips aid in control and efficiency even further. Great with GC Ortho Connect!



GC Ortho Etching Gel			
	Description	Quantity	PART NUMBER
	GC Ortho Etching Gel (37% phosphoric acid)	2 Syringes of 4.8 g and 40 Dispensing Tips	90-1400-0000