








Luting Portfolio from GC



Product Name	Freegenol	Fuji I	Fuji Cem	Fuji Cem Automix	Fuji Plus	G-CEM	G-CEM Automix
							
Cement Type	Temporary luting cement	Conventional Glass Ionomer	Resin Modified Glass Ionomer			Self-adhesive Resin Cement	
Indications	Temporary luting of prosthetic appliances	For basic routine luting of metal-based work and high strength ceramics	For your most frequent luting procedures of crown and bridge works (Metal, PFM, high strength ceramic Zirconia type), composite inlays and onlays MUST HAVE			Universal luting cement for metal, all ceramic and composite crowns, bridges (max 2 abutments), inlays, onlays Automix: additional long span bridges and post luting indications	
Delivery type	1-1 Pack	Powder/Liquid and capsules	Paste-Pak system	Paste-Pak Automix	Powder/Liquid and capsules	Capsules	Automix
Main Delivery Features	<ul style="list-style-type: none"> Consistency can be adjusted 	<ul style="list-style-type: none"> Powder/liquid: package is designed to ease powder and liquid dosage Capsule: exact ratio and perfect consistency 	<ul style="list-style-type: none"> Adaptable dosage Delivers exactly the right ratio Reduced waste Easy paste / paste mixing 	<ul style="list-style-type: none"> The most versatile RMGIC, choice between Automix and hand-mixing Perfect mixing, no bubbles No contamination, direct dispensing into restoration Reduced dispensing time 	<ul style="list-style-type: none"> Powder/liquid available in 3 shades Extended Working Time version available, specially adapted for bridges Capsule: exact ratio and perfect creamy consistency and flow. Available in 2 shades 	<ul style="list-style-type: none"> Capsule: exact dosage Perfect creamy consistency and flow Simple direct application into prosthetic elements Available in 4 different shades 	<ul style="list-style-type: none"> No contamination, direct dispensing into restoration Reduced dispensing time Endo tip for direct application into canal and post luting Available in 4 different shades
Main Product Features	<ul style="list-style-type: none"> Eugenol free, no negative effect on polymerisation of resin containing materials Short setting time Easy to remove from crowns and cores Special cleaner included 	<ul style="list-style-type: none"> No surface preparation or bonding agent Sufficiently strong for most basic needs Low solubility High fluoride release Excellent radiopacity 	<ul style="list-style-type: none"> Guaranteed adhesive strength offering optimal clinical performance Low post-operative sensitivity Very Low film thickness, only 3µ Easy seating and improved fit High Fluoride release Easy to remove excess 		<ul style="list-style-type: none"> Benchmark for luting on metal and PFM restorations High retention and mechanical properties. Very low solubility Great sealing ability Low post-op sensitivity Simple application Snap set Significant Fluoride release Predictable performance 	<ul style="list-style-type: none"> Easy to use, not sensitive to technique Very low hygroscopic expansion, ideal for all ceramics Good bonding strength in both curing mode Easy to remove excess, tack cure possible Short setting time Avoids discoloration Low post-operative sensitivity 	<ul style="list-style-type: none"> Stable or increased bond strength to both tooth structure and Zirconia, even after thermocycling Storage at room temperature Highest flexural strength in its category Incredibly accurate and durable No post operative sensitivity Adequate radiopacity





Luting Cement Products from GC – Indications Guide



Cement Cement Type	Fuji I	FujiCem & FujiCem Automix	Fuji Plus	G-CEM	G-CEM Automix
	Conventional Glass Ionomer	Resin Modified Glass Ionomer	Resin Modified Glass Ionomer	Self-adhesive Resin Cement	Self-adhesive Resin Cement
Delivery Mode	P/L and Capsule	Handmix and Automix	P/L & Capsule	Capsule	Automix
Metal / PFM					
• Inlays / Onlays	Y	Y	Y	Y	Y
• Crowns	Y	Y	Y	Y	Y
• Bridges	Y	Y	Y	Y**	Y
• Endodontic Posts*	Y	Y	Y	N	Y
Ceramics – Low & middle strength ¹					
• Inlays / Onlays	N	Y	Y	Y	Y
• Crowns	N	N	N	Y	Y
• Bridges	N	N	N	Y**	Y
• Veneers	N	N	N	N	N
Ceramics – High Strength ²					
• Crowns	Y	Y	Y	Y	Y
• Bridges	Y	Y	Y	Y**	Y
• Endodontic Posts*	N	Y	Y	N	Y
Composite / Reinforced Polymer					
• Inlays / Onlays	N	Y	Y	Y	Y
• Crowns	N	Y	Y	Y	Y
• Bridges	N	Y	Y	Y**	Y
• Endodontic Posts*	N	Y	Y	N	Y

Luting pre-treatment guide with GC luting materials



			Fuji I	FujiCEM & FujiCEM Automix	Fuji PLUS	G-CEM	G-CEM Automix
			Glass Ionomer	Resin Modified Glass Ionomer	Resin Modified Glass Ionomer	Self-Adhesive Luting Cement	Self-Adhesive Luting Cement
Surface Type	Example						
Tooth Surface	Dentin and enamel	Pre-treatment	Cleaning	Cleaning & Optional conditioning	Cleaning & Conditioning with Fuji Plus Conditioner	Cleaning	Cleaning
		Indications	NI	Inlays, onlays	Inlays, Onlays	Inlays, Onlays, Crowns, Bridges(max. 2 abutments)	Inlays, Onlays, Crowns, Bridges, posts
Low & Middle Strength Ceramic based restorations (Flexural Strength less than 600MPa)	GC Initial MC /PC; Empress II; E-max Press	Pre-treatment of Ceramic core material¹	NI	Silicate/feldspar based: etching & GC Ceramic Primer A Others: Sandblasting ¹	Silicate/feldspar based: etching & GC Ceramic Primer A Others: Sandblasting ¹	Silicate/feldspar based: etching & GC Ceramic Primer A Others: Sandblasting ¹	Silicate/feldspar based: etching & GC Ceramic Primer A Others: Sandblasting ¹
		Indications	Crowns, Bridges	Crowns, Bridges, Posts	Crowns, Bridges, Posts	Crowns, Bridges(max. 2 abutments)	Crowns, Bridges, Posts
High Strength Ceramic based restorations (Flexural Strength more than 600MPa)	Procera Alumina & Zirconia ; Lava ; KaVo Everest; ZirCad; InCeram Zirconia	Pre-treatment of Ceramic core material²	Sandblasting ¹	Sandblasting ¹	Sandblasting ¹	Sandblasting ¹	Sandblasting ¹
		Indications	Crowns, Bridges	Crowns, Bridges, Posts	Crowns, Bridges, Posts	Crowns, Bridges(max. 2 abutments)	Crowns, Bridges, Posts
Composite based restorations Indirect Composites (Metal Free)	GC Gradia, Composites blocks for Cad/Cam	Pre-treatment of Composite core material¹	NI	Sandblasting ¹ Optional : GC Ceramic primer A	Sandblasting ¹ Optional : GC Ceramic primer A	Sandblasting ¹ Optional : GC Ceramic primer A	Sandblasting ¹ Optional : GC Ceramic primer A
		Indications	NI	Inlay,Onlay,Crowns & bridges (reinforced),Endo posts	Inlay,Onlay,Crowns & bridges (reinforced),Endo posts	Inlay,Onlay,Crowns & Bridges (reinforced, max. 2 abutments)	Inlay,Onlay,Crowns & Bridges, Posts
Metal based restorations Porcelain fused to metal, Composite veneered on metal, full metal crowns	Dental alloys like Gold , Non-Precious, Palladium and Titanium	Pre-treatment of Metal core material¹	Sandblasting ¹ Optional : GC Metal Primer II	Sandblasting ¹ Optional : GC Metal Primer II	Sandblasting ¹ Optional : GC Metal Primer II	Sandblasting ¹ Optional : GC Metal Primer II	Sandblasting ¹ Optional : GC Metal Primer II
		Indications	Inlays ,Onlays, crowns & bridges, Endo posts	Inlays ,Onlays, crowns & bridges, Endo posts	Inlays ,Onlays, crowns & bridges, Endo posts	Inlays, Onlays, Crowns & Bridges(max. 2 abutments)	Inlays, Onlays, Crowns, Bridges, Posts

¹ The aim of roughening surface by sandblasting / etching is to increase the surface area, obtain higher surface roughness and/or to purify the material.

² Different manufacturers of core ceramic materials have different advice on pre-treatment (Sandblasting). Consult the corresponding IFU! Internal tests shows no significant bonding improvement
NI: Not Indicated / Recommended

