




# GLASS IONOMER REFERENCE GUIDE






## Benefits of Glass Ionomers

- Chemical & mechanical bond to tooth structure - no bonding agents needed
  - Continuous and rechargeable fluoride release
    - Works in a moist environment
- Coefficient of thermal expansion same as dentin
  - A very SIMPLE technique


### GC Glass Ionomer Crown and Bridge Cements

	PRODUCT	USES	COMPETITION
	<b>GC Fuji PLUS<sup>®</sup></b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid &amp; Capsules</li> <li>• Stronger than GC Fuji I<sup>®</sup></li> </ul>	Metal copings, metal crowns/ bridges, metal inlays and onlays, short preps, porcelain inlays, Cerec <sup>†</sup> & eMax <sup>†</sup> restorations	RelyX <sup>†</sup> , Ceramir Crown and Bridge Cement <sup>†</sup>
	<b>GC FujiCEM<sup>™</sup> 2</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Unique Paste Pak no waste dispensing, also available in Automix delivery</li> <li>• Similar to GC Fuji PLUS<sup>®</sup></li> </ul>	Same uses as GC Fuji PLUS <sup>®</sup>	RelyX <sup>†</sup> , any Powder/Liquid, Ceramir Crown and Bridge Cement <sup>†</sup>
	<b>GC Fuji I<sup>®</sup></b> - Glass Ionomer Cement <ul style="list-style-type: none"> <li>• Powder/Liquid &amp; Capsules</li> <li>• Self-cure</li> </ul>	Luting cement - crowns, bridges, inlays, onlays, posts, ortho bands, Cerec <sup>†</sup> & eMax <sup>†</sup> restorations	Ketac Cern <sup>†</sup> , Glaslonomer <sup>†</sup>


### GC Glass Ionomer Orthodontic Adhesives

	PRODUCT	USES	COMPETITION
	<b>GC Fuji ORTHO<sup>™</sup> LC</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid, Capsules &amp; Unique Paste Pak no waste dispensing, also available in automix delivery</li> <li>• Light-cure/Triple-cure (light, chemical &amp; acid based)</li> </ul>	Bonding orthodontic brackets, repairs	Transbond XT <sup>†</sup> , Transbond Plus <sup>†</sup> , Green Gloop <sup>†</sup> , Blue Gloop <sup>†</sup> , Reliance Phase II <sup>†</sup> , Rely-A-Bond <sup>†</sup> , Opal Bond <sup>†</sup>
	<b>GC Fuji ORTHO<sup>™</sup></b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid</li> <li>• Self-cure</li> </ul>	Bonding orthodontic brackets and appliances, repairs	Transbond XT <sup>†</sup> , Transbond Plus <sup>†</sup> , Green Gloop <sup>†</sup> , Blue Gloop <sup>†</sup> , Reliance Phase II <sup>†</sup> , Rely-A-Bond <sup>†</sup> , Opal Bond <sup>†</sup>
	<b>GC Fuji ORTHO<sup>™</sup> BAND, GC Fuji ORTHO<sup>™</sup> BAND LC Automix</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Self-cure (GC Fuji ORTHO<sup>™</sup> BAND) Light-cure (GC Fuji ORTHO<sup>™</sup> BAND LC Automix)</li> <li>• Blue color for easy clean-up</li> <li>• Unique Paste Pak no waste dispensing</li> </ul>	Bonding orthodontic bands	Optiband Ultra <sup>†</sup> , Transbond Plus <sup>†</sup>


### GC Glass Ionomer Bonding Agents

	PRODUCT	USES	COMPETITION
	<b>GC Fuji BOND<sup>™</sup> LC</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid</li> <li>• Light-cure</li> <li>• Use with GC Cavity Conditioner</li> </ul>	Bonding composites (direct) in Class I, II, III and V restorations	N/A

### GC Glass Ionomer Surface Protection and Sealants














	PRODUCT	USES	COMPETITION
	<b>GC Fuji TRIAGE<sup>®</sup></b> - Glass Ionomer <ul style="list-style-type: none"> <li>• Capsules - Pink or White</li> <li>• Self-cure (pink shade can be command set*)</li> <li>• 7 times the fluoride release of any GI Restorative</li> </ul>	Pit and fissure sealant and protection for newly erupted molars, temporary access cavity sealing, interim restorations rampant caries, liner for high risk patients, treatment for non-carious hypersensitive areas	All resin sealants (GC Fuji TRIAGE <sup>®</sup> is in its own class)

### GC Glass Ionomer Provisional and Implant Cement

	PRODUCT	USES	COMPETITION
	<b>GC Fuji TEMP LT<sup>™</sup></b> - Glass Ionomer <ul style="list-style-type: none"> <li>• Unique Paste Pak no waste dispensing</li> <li>• Self-cure</li> <li>• Highest fluoride release of any GI</li> </ul>	Provisional restorations and implants	None, it's the first of its kind



The World Leader in Glass Ionomers

GC Glass Ionomer Restorative Materials			
	PRODUCT	USES	COMPETITION
	<b>EQUIA® Forte</b> - Bulk Fill, Fluoride Releasing, Glass Hybrid Restorative System <ul style="list-style-type: none"> <li>• Capsule and bottle system</li> <li>• EQUIA® Forte Fil: self-cure, EQUIA® Forte Coat: light-cure</li> <li>• Expanded stress bearing Class II indications.</li> <li>• Superior strength, wear resistance and Fluoride release</li> </ul>	Class I, stress bearing and non-stress bearing Class II, Class V, amalgam/composite/ compomer alternative for pediatric or geriatric, core build-up, quick fix, interim restorations, long-term temporary	Amalgam, composites, compomers, other glass ionomers - Ketac Fil†, Photac Fil†, Vitremer†, ChemFil Rock†, Ionolux AC†, Biodentine† (not a GI or RRGI, but has some similar indications), flowable composites
	<b>GC Fuji II LC®</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Capsules or Powder/Liquid</li> <li>• Triple-cure (light, chemical &amp; acid based)</li> <li>• Use with GC Cavity Conditioner (20% Polyacrylic Acid)</li> <li>• 10 Vita® Shades</li> </ul>	Cervical erosions, Class V, Class I and II Pedo, base/liner, core build-up, non-load bearing Class II	Ketac Fil†, Photac Fil†, Vitremer†, ChemFil Rock†, Ionolux AC†, Biodentine† (not a GI or RRGI, but has some similar indications), flowable composites
	<b>GC Fuji Filling™ LC</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Unique Paste Pak no waste dispensing</li> <li>• Use with GC Self Conditioner (no rinse!)</li> <li>• Superior esthetics (higher translucency) - 5 Vita® shades + Blue</li> <li>• Higher fluoride release</li> </ul>	Base or liner, Sandwich Technique, Class I, Class III, Class V pedo, core build-up, non-load bearing Class II	Vitremer†
	<b>GC Fuji IX GP®, GC Fuji IX GP® FAST, GC Fuji IX GP® EXTRA</b> - Packable Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid (GC Fuji IX GP only)</li> <li>• Capsules</li> <li>• Self-cure</li> </ul>	Amalgam/composite/compomer alternative for pediatric or geriatric, core build-up (stronger than Miracle Mix®), quick fix, interim restorations, long-term temporary	Amalgam, composites, compomers, other glass ionomers - Ketac Fil†, Photac Fil†, Vitremer†, ChemFil Rock†, Ionolux AC†, Biodentine† (not a GI or RRGI, but has some similar indications), flowable composites
	<b>GC Fuji TRIAGE®</b> - Glass Ionomer <ul style="list-style-type: none"> <li>• Capsules - Pink or White</li> <li>• Self-cure (pink shade can be command set*)</li> <li>• 7 times the fluoride release of any GI Restorative</li> </ul>	Pit and fissure sealant and protection for newly erupted molars, temporary endo sealing, interim restorations rampant caries, liner for high risk patients, treatment for non-cariou hypersensitive areas	All resin sealants (GC Fuji TRIAGE® is in its own class)
GC Glass Ionomer Core Build-Up Materials			
	PRODUCT	USES	COMPETITION
	<b>Miracle Mix®</b> - Alloy Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid &amp; Capsules</li> <li>• Self-cure</li> </ul>	Core build-up	Composites, Ketac Silver†
	<b>GC Fuji II LC® CORE</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Powder/Liquid</li> <li>• Blue shade</li> <li>• Triple-cure</li> </ul>	Core build-up	Composites, Vitremer†
	<b>GC Fuji IX GP®, GC Fuji IX GP® FAST, GC Fuji IX GP® EXTRA</b> - Packable Glass Ionomer * See Restorative Materials	* See Restorative Materials	* See Restorative Materials
GC Glass Ionomer Base and Liner Materials			
	PRODUCT	USES	COMPETITION
	<b>GC Fuji II LC®</b> - Resin Reinforced Glass Ionomer * See Final Restorative Materials	Base or liner	Vitrebond†, Biodentine† (not a GI or RRGI, but has some similar indications)
	<b>GC Fuji IX GP®, GC Fuji IX GP® FAST, GC Fuji IX GP® EXTRA</b> - Packable Glass Ionomer Cement * See Final Restorative Materials	Base or liner	Vitrebond†, Biodentine† (not a GI or RRGI, but has some similar indications)
	<b>GC Fuji LINING™ LC</b> - Resin Reinforced Glass Ionomer <ul style="list-style-type: none"> <li>• Unique Paste Pak no waste dispensing or Powder/Liquid</li> <li>• Light-cure</li> </ul>	Base or liner	Vitrebond†, Biodentine† (not a GI or RRGI, but has some similar indications)
	<b>LINING CEMENT</b> - Glass Ionomer Cement <ul style="list-style-type: none"> <li>• Powder/Liquid</li> <li>• Self-cure</li> </ul>	Liner	Vitrebond†, Biodentine† (not a GI or RRGI, but has some similar indications)
	<b>GC Fuji Filling™ LC</b> - Resin Reinforced Glass Ionomer * See Final Restorative Materials	* See Final Restorative Materials	Vitremer†, Vitrebond†, Biodentine† (not a GI or RRGI, but has some similar indications)

† Not a registered trademark of GC America Inc.  
\* See instructions.  
Reference available upon request.

