

# GC Gold Label // Glass Ionomer



Product Description	Packaging	Working & Setting Time <sup>2</sup>
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**GC Gold Label 1**  
Luting & Lining Cement

- GC Gold Label 1 Luting & Lining Cement (35g Powder, 20ml Liquid)
- Fuji I Capsule (Box of 50 capsules)

Powder / Liquid Ratio (g/g)	1.4/1.0	1.8/1.0	2.2/1.0
Mixing Time (min, sec.)	20"	20"	20"
Working Time (min, sec.)	2'30"	2'00"	1'15"
Net Setting Time (min, sec.)	2'50"	2'30"	2'20"



**GC Gold Label 2**  
Universal Restorative

- GC Gold Label 2 Universal Restorative (15g Powder, 8ml Liquid)
- Fuji II Capsule (Box of 50 capsules)

Powder / Liquid Ratio (g/g)	2.7/1.0
Mixing Time (sec.)	25"-30"
Working Time (min, sec.)	2'00"
Net Setting Time (min, sec.)	2'20"



**GC Gold Label 2LC**  
Light-Cured Universal Restorative

- GC Gold Label 2LC Light-Cured Universal Restorative (15g Powder, 6.8ml Liquid)
- Fuji II LC Capsule (Box of 50 capsules)

Powder / Liquid Ratio (g/g)	3.2/1.0
Mixing Time (sec.)	20"-25"
Working Time (min, sec.)	3'45"
Light Curing Time (sec.)	20"
Depth of Cure (A2) (mm)	1.8



**GC Gold Label 9**  
High Strength Posterior Restorative

- GC Gold Label 9 High Strength Posterior Restorative (15g Powder, 6.4ml Liquid)
- Fuji IX GP Capsule (Box of 50 capsules)

Powder / Liquid Ratio (g/g)	3.6/1.0
Mixing Time (sec.)	25"-30"
Working Time (min, sec.)	2'00"
Net Setting Time (min, sec.)	2'20"

<sup>1</sup> VITA is a trademark of VITA ZAHNFABRIK  
<sup>2</sup> Test Conditions : Temperature (23+/-1°C) Relative Humidity (50 +/- 5-10%)



## Gold Label //

# Setting the GOLD Standard

GC GOLD LABEL 1

GC GOLD LABEL 2

GC GOLD LABEL 2LC

GC GOLD LABEL 9



# Worth Their Weight in GOLD



“ Since our establishment in 1921, GC Corporation continues to develop and market breakthrough products with a worldwide reputation for quality and technical excellence. One milestone in our history was in 1951 where products that met ADA standards were designated as part of the BLUE BAND series.

As part of celebrating our 85th year anniversary, GC Corporation is launching the **GOLD LABEL** brand series.

Key highlights of the **GOLD LABEL** series are:

- ◆ GC products that have been recognized as the gold standard in various material research and sets the benchmark for others to follow
- ◆ GC products that have shown outstanding use in clinical practice and now with additional treatment indications ”

## Placement Procedures

Dr. Jennifer Neo



1. Prepared cavity.



2. Tooth cleaned and conditioned with Dentin Conditioner (10% polyacrylic acid).



3. Tooth is rinsed, then blot dried (not desiccated).



4. A lubricated proximal matrix is put in place.



5. Fuji IX GP is mixed at the correct powder to liquid ratio; and placed on the cavity.



6. Restoration is moisture-proofed using either GC Fuji Varnish or Fuji Coat LC.



7. Final finishing can be done under water spray 6 minutes from start of mix.



8. To complete the treatment, seal with a final layer of either GC Fuji Varnish or Fuji Coat LC.

# GC Gold Label 9

High Strength Posterior Restorative



## Feature

- ◆ Chemical bond to tooth structure
- ◆ Tooth-like coefficient of thermal expansion
- ◆ High fluoride release
- ◆ Strontium based
- ◆ Reduced moisture sensitivity
- ◆ High compressive and flexural strength, and 60% higher wear resistance than conventional glass ionomers
- ◆ Excellent handling characteristics
- ◆ Range of 4 VITA<sup>1</sup> Shades: A2, A3, A3.5 and B2
- ◆ Good radiopacity
- ◆ Low solubility
- ◆ Long term clinical data

## Benefit

- ◆ Allows minimal cavity preparation
- ◆ Less stress on margins and marginal seal
- ◆ Protects against secondary caries
- ◆ Promotes internal remineralization and surface strengthening
- ◆ Final finish may be completed under water in 6 minutes from start of mix
- ◆ Strong enough for use in posterior teeth
- ◆ Easier mixing and sharper setting makes it so easy to use
- ◆ Good colour match to tooth shade
- ◆ Easy post-operative diagnosis
- ◆ More durable, longer lasting restorations
- ◆ Assurance of successful restorations

## Applications

- ◆ Class I and small Class II restorations in non-load bearing areas
- ◆ Class I and Class II restorations in deciduous teeth
- ◆ Transitional restorations
- ◆ Base / Core Build-ups

# Gold Label

## A unique Glass Ionomer System setting the **GOLD** standard

### 1 A Strontium-based Glass Ionomer

All GC Gold Label Glass Ionomer contains strontium glass. The strontium glass provides good radiopacity and snap-set characteristics, unanimously preferred by clinicians around the world. Interestingly, strontium will mimic calcium in the formation of strontium hydroxyapatite and strontium fluoroapatite to affect internal remineralization within the tooth structure.

### Surface Strengthening Effect

Research has shown that a strontium-based glass ionomer placed in calcium-containing environment (saliva) will result in calcium ion diffusing into the glass ionomer surface achieving a surface strengthening effect. All GC Gold Label Glass Ionomer strengthens over time in saliva.

### 3 A Consistent Predictable Seal

All GC Gold Label Glass Ionomer will display a glossy surface after mixing. This indicates sufficient free polyacrylic acid is available to begin the ion exchange process. The subsequent movement of ions between dentin, enamel and GC Glass Ionomer creates an ion exchange zone which chemically fuses them together. The resulting seal is consistent, predictable and long lasting.



# GC Gold Label 1

Luting & Lining Cement



## Feature

- ◆ Intrinsic chemical adhesion to both tooth structure and metal
- ◆ Glass Ionomer formulation
- ◆ Fluoride release
- ◆ High mechanical strength
- ◆ Excellent wetting properties
- ◆ Film thickness of just 15 microns
- ◆ Radiopaque
- ◆ Sharp set characteristics
- ◆ Low solubility
- ◆ Long term clinical data

## Benefit

- ◆ No surface preparation or bonding agent required, yet with exceptional retention characteristics
- ◆ Biocompatible and with a tooth-like coefficient of thermal expansion maintaining the marginal seal
- ◆ Protection from secondary caries
- ◆ Sufficiently strong for routine luting and lining requirements
- ◆ Easier to mix resulting in an smooth ultra creamy mix
- ◆ Excellent flow and complete seating of the crown, bridge or orthodontic band; and the ideal viscosity for lining
- ◆ Easy post-operative checks
- ◆ Less chairside stress for both patient and dentist
- ◆ More durable, longer lasting marginal seal
- ◆ Assurance of success

## Applications

- ◆ Final cementation of metal or porcelain fused to metal crowns and bridges
- ◆ Cementation of stainless steel crowns and orthodontic bands
- ◆ Lining under restorative materials

## Placement Procedures

Dr. Sueno Saito



1. Prepared cavity.



2. Tooth cleaned and conditioned with GC Cavity Conditioner (20% polyacrylic acid).



3. Tooth is rinsed, then blot dried (not dessicated).



4. Fuji II LC is mixed at the correct powder to liquid ratio; and placed on the cavity. (Best results are achieved by using a matrix).



5. Light cure for 20 seconds. Finish under water spray.



6. To complete the treatment, seal with a final layer of Fuji Coat LC.

# GC Gold Label 2LC

Light-Cured Universal Restorative



## Feature

- ◆ Chemical bond to tooth structure
- ◆ Tooth-like coefficient of thermal expansion
- ◆ High fluoride release
- ◆ Smaller particles
- ◆ Higher filler loading
- ◆ Triple cure mechanism
- ◆ Available in VITA<sup>1</sup> Shades A1, A2, A3, A3.5, A4, B2 and B3
- ◆ Low solubility
- ◆ Long term clinical data

## Benefit

- ◆ Allows minimal cavity preparation
- ◆ Less stress on margins and marginal seal
- ◆ Protects against secondary caries
- ◆ Excellent esthetics and finish
- ◆ Improved abrasion resistance
- ◆ Allows for immediate finishing after light curing while ensuring total material set
- ◆ Ease of colour match to tooth shade
- ◆ More durable, longer lasting restorations
- ◆ Assurance of successful restorations

## Applications

- ◆ Class III and V restorations
- ◆ Root surface caries and cervical erosion
- ◆ Abfraction lesions

## Placement Procedures



1. Prepared tooth. Dry, but do not desiccate.



2. Dispense the correct powder to liquid ratio on the mixing pad.



3. Add all the powder to the liquid and mix rapidly for 20 seconds.



4. Apply the mixed cement to both restoration and prepared tooth.



5. Seat the restoration within 30 seconds of completing the mixing.



6. Remove excess cement during gel stage. Total setting time is 4 minutes 30 seconds after start of mixing.



7. Moisture proof margin by applying Fuji Coat LC or Fuji Varnish.



8. End result.

# GC Gold Label 2

Universal Restorative



## Feature

- ◆ Chemical bond to tooth structure
- ◆ Tooth-like coefficient of thermal expansion
- ◆ High fluoride release
- ◆ Strontium based
- ◆ Good radiopacity
- ◆ Excellent handling characteristics
- ◆ Reduced moisture sensitivity
- ◆ Translucent material
- ◆ Range of 3 shades:
  - #21 Pale Yellow
  - #22 Yellow Brown
  - #23 Dark Gray
- ◆ Low solubility
- ◆ Long term clinical data

## Benefit

- ◆ Allows minimal cavity preparation
- ◆ Less stress on margins and marginal seal
- ◆ Protects against secondary caries
- ◆ Promotes internal remineralization and surface strengthening
- ◆ Easy post-operative diagnosis
- ◆ Easier mixing and sharper setting makes it so easy to use
- ◆ Final finish may be completed under water 15 minutes from start of mix
- ◆ Matches to natural tooth structure
- ◆ Good colour match to tooth structure
- ◆ More durable, longer lasting restorations
- ◆ Assurance of successful restorations

## Applications

- ◆ Restoration of Class III and V cavities; erosion lesions, and primary teeth
- ◆ Base and core build-up

## Placement Procedures



1. An erosion case on the upper left lateral incisor.



2. Tooth cleaned and conditioned with GC Dentin Conditioner (10% polyacrylic acid). Tooth is rinsed, then blot dried (not desiccated).



3. Mix at the correct powder to liquid ratio; and place on the cavity. (Best results are achieved by using a matrix).



4. Restoration is moisture-proofed using either GC Fuji Varnish or Fuji Coat LC.



5. Final finishing can be done under water spray 15 minutes from start of mix.



6. Seal with a final layer of either GC Fuji Varnish or Fuji Coat LC.