

GC Fuji BOND LC

Prior to use, carefully read the instructions for use.

GB

LIGHT-CURED REINFORCED
GLASS IONOMER DENTIN / ENAMEL BONDING AGENT

For use only by a dental professional in the recommended indications.

RECOMMENDED INDICATIONS

1. For direct bonding of composite resin to dentin and enamel.
2. For direct bonding of composite resin to dentin and enamel in the co-cured technique.
3. For direct bonding of composite resin to GC Fuji II LC base and enamel in the "sandwich" technique.
4. For sealing of hypersensitive cervical areas and root surfaces of teeth.

CONTRAINDICATIONS

1. Pulp capping.
2. In rare cases the product may cause sensitivity to some persons. If such reactions are experienced, discontinue the use of the product and refer to a physician.

DIRECTIONS FOR USE

A. GC Fuji BOND LC FOR SHALLOW CAVITIES CLASS I, II, III, IV, V

1. CAVITY PREPARATION

Isolate tooth with rubber dam. Remove decay with rotary instruments. Form cavity in the usual manner.

2. CAVITY CONDITIONING AND DRYING

Using a cotton pellet, apply GC CAVITY CONDITIONER for 10 seconds over all dentin and enamel surfaces that will have restorative material applied. Wash, then dry but do not desiccate.

3. POWDER AND LIQUID DISPENSING

The standard powder/liquid ratio is 0.7g/1.0g. This consistency can be obtained with one level spoonful of powder and two drops of liquid. Liquid should be first dispensed for easy mixing.

4. MIXING

Place the specified amounts of liquid and powder into a disposable dish. Mix for 10 seconds with a disposable brush. Working time is 2 minutes 30 seconds from the start of mixing at 23°C (73.4°F). Higher temperatures will shorten working time.

5. APPLICATION OF GC Fuji BOND LC

Apply GC Fuji BOND LC in a thin layer to the conditioned enamel and dentin surfaces using a disposable brush. Light cure for 20 seconds with a visible light curing device (470nm wavelength).

6. BUILD COMPOSITE RESIN

Place the light cured composite resin of choice (GC GRADIA DIRECT or equivalent) into the cavity in the usual manner (according to manufacturer's instructions) and light cure for the appropriate period of time.

7. FINAL CONTOURING AND POLISHING

Perform adjustments and polishing with superfine diamond points. Interproximal surfaces may be finished with GC NEW METAL STRIPS or EPITEX. An even greater luster can be obtained using a superfine silicone point with water.

Note :
If completing restorations without rubber dam, it is recommended to place a thin layer of GC Fuji COAT LC or GC Fuji VARNISH over the margins after finishing.

B. GC Fuji BOND LC CO-CURED TECHNIQUE FOR SHALLOW CAVITIES CLASS I, II, III, IV, V

There may be potential benefits in placing a composite resin into uncured Fuji BOND LC and simultaneously co-curing the two materials.

In this technique the composite resin cures before GC Fuji BOND LC, and polymerization shrinkage will have occurred within the composite resin prior to setting of GC Fuji BOND LC significantly reducing the internal stress of the restoration.

1. CAVITY PREPARATION

Isolate tooth with rubber dam. Remove decay with rotary instruments. Form cavity in the usual manner.

2. CAVITY CONDITIONING AND DRYING

Using a cotton pellet, apply GC CAVITY CONDITIONER for 10 seconds over all dentin and enamel surfaces that will have restorative material applied. Wash, then dry but do not desiccate.

3. POWDER AND LIQUID DISPENSING

The standard powder/liquid ratio is 0.7g/1.0g. This consistency can be obtained with one level spoonful of powder and two drops of liquid. Liquid should be first dispensed for easy mixing.

4. MIXING

Place the specified amounts of liquid and powder into a disposable dish. Mix for 10 seconds with a disposable brush. Working time is 2 minutes 30 seconds from the start of mixing at 23°C (73.4°F). Higher temperatures will shorten working time.

5. APPLICATION OF GC Fuji BOND LC AND COMPOSITE RESIN

Apply GC Fuji BOND LC in a thin layer to the conditioned enamel and dentin surfaces using a disposable brush. Immediately place an increment of composite resin into the center of the preparation and contour it towards the margins with a ball burnisher or similar instrument. Light cure the two materials together for a minimum of 20 seconds. Check manufacturer's instructions for multi surface restorations.

6. FINAL CONTOURING AND POLISHING

Perform adjustments and polishing with superfine diamond points. Interproximal surfaces may be finished with GC NEW METAL STRIPS or EPITEX. An even greater luster can be obtained using a superfine silicone point with water.

Note :
If completing restorations without rubber dam, it is recommended to place a thin layer of GC Fuji COAT LC or GC Fuji VARNISH over the margins after finishing.

C. GC Fuji BOND LC AND GC Fuji II LC "SANDWICH" TECHNIQUE FOR DEEP CAVITIES CLASS I, II, III, IV, V

In deep cavities, placement of a base or dentin substitute between the floor of the cavity and the composite resin is recommended. This will reduce the amount of composite resin to be used and also reduce the total shrinkage. At the same time it will provide additional benefits, e.g. chemical adhesion, biocompatibility and fluoride release. If the sandwich or lamination technique is to be used, then GC Fuji II LC is the material of choice as the dentin substitute.

1. CAVITY PREPARATION

Isolate tooth with rubber dam. Remove decay with rotary instruments. Form cavity in the usual manner.

Note :
Apply calcium hydroxide to areas of possible pulpal exposure.

2. CAVITY CONDITIONING AND DRYING

Using a cotton pellet, apply GC CAVITY CONDITIONER for 10 seconds over all dentin and enamel surfaces that will have restorative material applied. Wash, then dry but do not desiccate.

3. APPLICATION OF GC Fuji II LC AS A BASE MATERIAL

Place GC Fuji II LC into the cavity incrementally and light cure each increment using a light curing unit (470nm wavelength). Build to within 2 mm of the occlusal, buccal or labial surface. Light cure for 20 seconds in each direction.

4. POWDER AND LIQUID DISPENSING

The standard powder/liquid ratio is 0.7g/1.0g. This consistency can be obtained with one level spoonful of powder and two drops of liquid. Liquid should be first dispensed for easy mixing.

5. MIXING

Place the specified amounts of liquid and powder into a disposable dish. Mix for 10 seconds with a disposable brush. Working time is 2 minutes 30 seconds from the start of mixing at 23°C (73.4°F). Higher temperatures will shorten working time.

6. APPLICATION OF GC Fuji BOND LC

Apply GC Fuji BOND LC in a thin layer to the previously conditioned enamel surface, cavity walls and the base material <GC Fuji II LC> using a disposable brush. Light cure for 20 seconds with the visible light curing device.

7. BUILD COMPOSITE RESIN

Place the light cured composite resin of choice (GC GRADIA DIRECT or equivalent) into the cavity in the usual manner (according to manufacturer's instructions) and light cure for the appropriate period of time.

8. FINAL CONTOURING AND POLISHING

Perform adjustments and polishing with superfine diamond points. Interproximal surfaces may be finished with GC NEW METAL STRIPS or EPITEX. An even greater luster can be obtained using a superfine silicone point with water.

Note :
If completing restorations without rubber dam, it is recommended to place a thin layer of GC Fuji COAT LC or GC Fuji VARNISH over the margins after finishing.

D. GC Fuji BOND LC AND GC Fuji II LC CO-CURED SANDWICH TECHNIQUE

After the recommended placement and curing of GC Fuji I LC base material, a co-curing technique can be followed to help reduce internal stress in the final composite veneer.

1. CAVITY PREPARATION

Isolate tooth with rubber dam. Remove decay with rotary instruments. Form cavity in the usual manner.

Note :
Apply calcium hydroxide to areas of possible pulpal exposure.

2. CAVITY CONDITIONING AND DRYING

Using a cotton pellet, apply GC CAVITY CONDITIONER for 10 seconds over all dentin and enamel surfaces that will have restorative material applied. Wash, then dry but do not desiccate.

3. APPLICATION OF GC Fuji I LC AS A BASE MATERIAL

Place GC Fuji I LC into the cavity incrementally and light cure each increment using a light curing unit (470nm wavelength). Build to within 2 mm of the occlusal, buccal or labial surface. Light cure for 20 seconds in each direction.

4. POWDER AND LIQUID DISPENSING

The standard powder/liquid ratio is 0.7g/1.0g. This consistency can be obtained with one level spoonful of powder and two drops of liquid. Liquid should be first dispensed for easy mixing.

5. MIXING

Place the specified amounts of liquid and powder into a disposable dish. Mix for 10 seconds with a disposable brush. Working time is 2 minutes 30 seconds from the start of mixing at 23°C (73.4°F). Higher temperatures will shorten working time.

6. APPLICATION OF GC Fuji BOND LC AND COMPOSITE RESIN

Apply GC Fuji BOND LC in a thin layer to the previously conditioned enamel surface, cavity walls and the base material <GC Fuji I LC> using a disposable brush.

Immediately place an increment of composite resin into the center of the preparation and contour it towards the margins with a ball burnisher or similar instrument. Light cure the two materials together for a minimum of 20 seconds. Check manufacturer's instructions for multi surface restorations.

7. FINAL CONTOURING AND POLISHING

Perform adjustments and polishing with superfine diamond points. Interproximal surfaces may be finished with GC NEW METAL STRIPS or EPITEX. An even greater luster can be obtained using a superfine silicone point with water.

Note :
If completing restorations without rubber dam, it is recommended to place a thin layer of GC Fuji COAT LC or GC Fuji VARNISH over the margins after finishing.

E. GC Fuji BOND LC FOR SEALING OF HYPERSENSITIVE CERVICAL AREAS AND ROOT SURFACES OF TEETH

1. CLEANING OF TOOTH SURFACE

Isolate tooth with rubber dam. Clean surfaces then dry.

2. TOOTH CONDITIONING AND DRYING

Using a cotton pellet, apply GC CAVITY CONDITIONER for 10 seconds over all exposed cervical and root surfaces. Wash, then dry but do not desiccate.

3. POWDER AND LIQUID DISPENSING

The standard powder/liquid ratio is 0.7g/1.0g. This consistency can be obtained with one level spoonful of powder and two drops of liquid. Liquid should be first dispensed for easy mixing.

4. MIXING

Place the specified amounts of liquid and powder into a disposable dish. Mix for 10 seconds with a disposable brush. Working time is 2 minutes 30 seconds from the start of mixing at 23°C (73.4°F). Higher temperatures will shorten working time.

5. APPLICATION OF GC Fuji BOND LC

Apply GC Fuji BOND LC in a thin layer to the previously conditioned tooth surfaces using a disposable brush. Light cure for 20 seconds.

6. FINISHING

Finish in the usual manner, using a diamond point, superfine silicone point, etc. with water.

Note :
If completing restorations without rubber dam, it is recommended to place a thin layer of GC Fuji COAT LC or GC Fuji VARNISH over the margins after finishing.

STORAGE

Store in a cool and dark place. (4~25°C (39.2~77.0°F)).
(Shelf life : powder 3 years, liquid 2 years from date of manufacture)

PACKAGES

1. Standard Set : 5g powder, 8g (7mL) liquid with a powder scoop, a bottle of 6g (5.7mL) GC CAVITY CONDITIONER.
2. Bottle of 5g powder with a powder scoop.
3. Bottle of 8g (7mL) liquid.

CAUTION

1. In case of contact with oral tissue or skin, remove immediately with a sponge or cotton soaked in alcohol. Flush with water.
2. In case of contact with eyes, flush immediately with water and seek medical attention.
3. DO NOT mix powder or liquid with any other glass ionomer components.
4. After use, tightly close both liquid and powder bottles to prevent exposure to light.