

Prior to use, carefully read the instructions for use.

GC Fuji ORTHO™ LC

LIGHT-CURED ORTHODONTIC BONDING ADHESIVE

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

- 1. Bonding metal brackets and attachments.
- 2. Bonding ceramic brackets.
- 3. Bonding acrylic appliances.
- 4. Band cementation only when extra band retention is desired.

CONTRAINDICATIONS

1. Avoid use in patients with known allergies to glass ionomer cement, methacrylate monomer or methacrylate polymer.

2. Bonding polycarbonate brackets.

3. Cementation of stainless steel crown-retained appliances (e.g., Herbst Appliances).

DIRECTIONS FOR USE

1. Enamel Preparation
a) Using a spray cup or a brush, clean the bonding surfaces of the teeth with water, followed by a thorough rinsing with water.

b) Rinse thoroughly with water.

c) Using a spray gun or a cotton pellet, apply ORTHO CONDITIONER to the bonding surfaces. Rinse thoroughly. Although successful results have been obtained with no enamel pretreatment, conditioning of the bonding surfaces will improve bond strength. Conditioning is therefore recommended, especially for new users of GC Fuji ORTHO LC.

d) After conditioning, dry the bonding surfaces according to the etchant manufacturer's directions. Rinse thoroughly.

The enamel bonding surfaces must be moist. An overly dry or desiccated enamel surface will adversely affect the bond strength. The optimum bonding conditions are obtained when the bonding surfaces of the teeth with a moistened cotton roll immediately prior to bracket bonding. If the bonding surfaces become desiccated during the bonding procedure, reapply ORTHO CONDITIONER to the moistened cotton roll before bonding with GC Fuji ORTHO LC.

2. Powder and Liquid Dispensing
The liquid to powder weight ratio is 3.0g/1.9g. 1 level large scoop of powder to 2 drops of liquid.

b) For accurate dispensing, tap the bottle gently. Do not shake.

c) Hold the bottle upright with the cap removed.

d) Close bottles immediately after use.

For rebonds or a small mix, use the small scoop and one drop of liquid.

Dispense the powder into 2 equal parts. Mix the first portion with ALL the liquid and mix for about 10 seconds. Incorporate the remaining powder and mix thoroughly for an additional 10-15 seconds (total 20-25 seconds). Note:

The working time is approximately 3 minutes from start of mixing at 23°C (73°F). Longer mixing times will shorten the working time, and lower temperatures will extend it.

4. Bonding Procedure

a) Coat the bonding surface of the bracket completely with the mixed adhesive.

b) Position the coated bracket on the tooth.

c) Press the bracket firmly against the enamel surface. Using an explorer or a scaler, remove the excess adhesive from the tooth. Press the bracket firmly onto the tooth until the adhesive sets. Place all brackets in a quadrant or in the full arch. More than one mix of adhesive may be necessary. If bracket drift is a concern, "tack" the bracket to the tooth with a small amount of adhesive.

NOTE: A bracket with a thin film of adhesive will move more easily than a bracket with a thick film of adhesive.

ATTENTION REMOVING EXCESS ADHESIVE: BE CAREFUL TO NOT DISTURB THE EXCESS ADHESIVE AS IT IS ADHESIVE. ADJUSTMENT OF THE BOND STRENGTH.

After bonding, the bracket must be left in place for 10 seconds from the occlusal, mesial, distal and gingival aspects. It is very important that the curing light be tested periodically with a light meter to ensure that the curing light is functioning correctly.

e) Insert leveling wire and complete initial procedures. A light force wire (e.g., .016 NITI or equivalent) is recommended at the initial bonding.

1) Bonding ceramic brackets: Chemically retentive bases must be etched and cleaned. If not etched and cleaned by the manufacturer, follow the manufacturer's directions for bonding.

2) Bonding brackets to porcelain restorations: Prepare porcelain surfaces by etching and silanating according to manufacturer's directions. Bond with GC Fuji ORTHO LC as per above.

3) Bonding brackets to acrylic restorations: Lightly roughen the metal surface with a disc or a fine diamond grit.

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