

ONE COMPONENT SELF-ETCHING LIGHT-CURED ADHESIVE

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

RECOMMENDED INDICATIONS

1. Bonding of light cured composites and acid modified composites (compomers) to tooth structure.
2. Bonding of dual cured luting and core build up composites to tooth structure as long as these materials are light cured.

CONTRAINDICATIONS

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

NOT TO BE USED

1. In combination with chemically cured composite resin.
2. In combination with eugenol containing materials as eugenol may hinder G-BOND from setting or bonding properly.
3. In combination with desensitizers as desensitizers may hinder G-BOND from setting or bonding properly.
4. In combination with dual cured luting and core build up composites in case these materials will not be light cured.

DIRECTIONS FOR USE

1. CAVITY PREPARATION

Prepare tooth using standard techniques. Use rubber dam for protection. Dry the prepared tooth surfaces by gently blowing with an air syringe.

Note:

For pulp capping, use calcium hydroxide.

2. APPLICATION

- a) Make sure that a disposable micro-tip applicator is firmly fixed on the applicator holder.
- b) Prior to dispensing, shake the bottle of G-BOND thoroughly (Fig. 1).
- c) Dispense a few drops into a clean dispensing dish (Fig. 2).
- d) Replace bottle cap immediately after use (Fig. 3).
- e) IMMEDIATELY apply to the prepared enamel and dentin surfaces using the micro-tip applicator (Fig. 4).
- f) Leave undisturbed for 5-10 seconds after the end of application (Fig.5).
- g) Then, dry thoroughly for 5 seconds with oil free air under MAXIMUM air pressure. Use vacuum suction to prevent splatter of the adhesive (Fig. 6). The final result should be a thin, rough, adhesive film with the appearance of frosted glass and which does not visibly move under further air pressure.

Note:

- 1) When removing from refrigerator after long-term storage, leave the bottle of G-BOND to stand at room temperature for several minutes prior to use.
- 2) Non cut enamel should be treated with a 35-40% phosphoric acid gel, rinsed with water and gently dried before using G-BOND.
- 3) Apply G-BOND immediately as the material contains a volatile solvent.
- 4) Remove excess material remaining on the tooth (other than the surfaces to be bonded) using a sponge or cotton pellet as residue material is hard to remove after light curing.
- 5) Should the applied material be contaminated with water, blood or saliva prior to light curing, wash and dry the tooth and repeat the procedure by re-applying material.



Fig.1



Fig.2



Fig.3



Fig.4



Fig.5



Fig.6



Fig.7

3. LIGHT CURING

Light cure using a visible light curing unit (Fig. 7).

Irradiation time

| | |
|---|--------------|
| Halogen / LED (700 mW/cm ²) | : 10 seconds |
| Plasma Arc (2000 mW/cm ²) | : 3 seconds |
| G-Light (1200 mW/cm ²) | : 5 seconds |

In case where the light guide tip is more than 10mm away from the surface to be irradiated, light cure for the following time.

| | |
|---|--------------|
| Halogen / LED (700 mW/cm ²) | : 20 seconds |
| Plasma Arc (2000 mW/cm ²) | : 6 seconds |
| G-Light (1200 mW/cm ²) | : 10 seconds |

Note:

- 1) Light cure completely for an effective bonding strength.
- 2) Use a protective light shield or similar protective eye wear during light curing.

4A. PLACEMENT OF LIGHT CURED COMPOSITES AND COMPOMERS

After having light cured the adhesive, follow manufacturer's instructions for use in order to place, contour and light cure the composite resin material of choice.

4B. PLACEMENT OF DUAL CURED COMPOSITES

After having light cured the adhesive, make sure to light cure the dual cured composite material separately. Self curing only will result in improper adhesion.

5. FINISHING

Adjust restoration and polish using standard techniques.

STORAGE

If not in use for a prolonged period of time, store in refrigerator, otherwise store at room temperature (1-28°C) (33.8-82.4°F).

Shelf life: 2 years from date of manufacture.

PACKAGE

Kit contains:

2 mL liquid (1), dispensing dish (No.1) (1), micro-tip applicator red (50), applicator holder (1)

CAUTION

1. G-BOND is flammable. Do not use near naked flame. Keep away from sources of ignition. Do not store large quantities in one area. Keep away from direct sunlight.
2. G-BOND is volatile. Use in a well ventilated place.
3. In case of contact with eyes, flush immediately with water and seek medical attention.
4. In case of contact with oral tissue or skin, immediately remove with a sponge or cotton pellet. After the restorative treatment is finished, rinse thoroughly with water.
5. If the tissue contacted by the material turns white or forms a blister, advise the patient to leave the affected area undisturbed, until the mark disappears, usually in 1-2 weeks. To avoid contact, it is recommended to apply cocoa butter to the area where rubber dam cannot cover.
6. Avoid inhalation or digestion of material.
7. When spilt on the table or floor, immediately wipe off with a dry cloth.
8. Do not mix with other products.
9. Dispose of all waste according to local regulations.