



GTIN: 7640178010000

## Medi 2 Bond

### Dental Adhesive component INSTRUCTIONS FOR USE

#### I. INTRODUCTION

**Medi 2 Bond** is a dual-cure light/ Chemical, dental bonding adhesive, consists of self-etching primer and a bonding agent. The primer used simultaneously in treatment of both dentine and enamel.

#### II. INDICATIONS

**Medi 2 Bond** is indicated for the following treatments:

- Direct filling restorations using light-cure or chemical-cure composite resin
- Bonded amalgam restorations
- Treatment of hypersensitive and/or exposed root surfaces
- Cavity sealing as a pretreatment for indirect restorations
- Intraoral repairs of fractured porcelain facing crowns using light-cure composite
- Cementing laminated veneer, inlays and onlays made of porcelain (or composite) using composite resin cement

#### III. CONTRAINDICATIONS

Patients with a history of hypersensitivity to methacrylate monomers

#### IV. POSSIBLE SIDE EFFECTS

The mucous membrane may turn whitish when contacted with primer due to the coagulation of protein. This is a temporary phenomenon that will disappear in a few days.

#### V. INCOMPATIBILITIES

- 1) Do not use eugenol-containing materials for pulp protection or temporary sealing, since the eugenol could retard the bonding system curing process.
- 2) Do not use hemostatic agents, especially those containing ferric compounds, since these materials may impair adhesion and may cause

discoloration at the tooth margin or surrounding gingiva due to ferric ions that may remain.

#### VI. PRECAUTIONS

##### 1. Safety precautions

1. Avoid use of the product for patients with a history of hypersensitivity to methacrylate monomers.
2. If any hypersensitivity such as dermatitis occurs, discontinue use of the product and consult a physician.
3. Use caution to prevent the product from coming in contact with the skin or getting into the eye. Before using the product, cover the patient's eyes with a towel to protect the patient eyes from splashing material.
4. If the product comes in contact with the human body, take the following measures:  
If the product gets in the eye immediately wash the eye with copious amounts of water and consult a physician.  
If the product comes in contact with the skin. Immediately wipe it off with a cotton pledget moistened with alcohol or gauze and wash with copious amounts of water.
5. Use caution to prevent the patient from accidentally swallowing the product.
6. Avoid looking directly at the curing light when curing the product.
7. Avoid using the same disposable brush tip for different patients to prevent cross infection. Discard the tip after use and sterilize the brush tip handle.

##### 2. Handling and manipulation precautions

1. The emitting tip of the visible light-cure activator should be held as near and vertical to the resin surface as possible. If a large resin surface is to be light cured, it is advisable to divide the area into several sections and light-cure each section separately.
2. Low intensity of light causes poor adhesion. Check the lamp for service life and the visible light guide tip for contamination. It is advisable to check the

light intensity of light-cure activator using an appropriate lightchecker at periodic intervals.

3. Use caution not to drop the system tray. Do not disassemble it.

4. The use of this product is restricted to a licensed dental professional.

##### 3. Storage precautions

1. The product must be used by the expiration date indicated on the package.
2. The product must be stored in a refrigerator (2-8°C/ 36-46°F) when not in use ; bring it to room temperature before using.
3. Keep away from extreme heat or direct sunlight.
4. Replace the bottle cap as soon as possible after resin has been dispensed from the bottle.
5. The product must be stored in proper places where only dental practitioners can access it.

#### VII. COMPONENTS

1) PRIMER Liquid A

Principal ingredients:

- 2-Hydroxyethyl methacrylate (HEMA)
- 10-Methacryloyloxydecyl dihydrogen phosphate (MDP)
- Hydrophilic aliphatic dimethacrylate
- dl-Camphorquinone
- Water
- Accelerators
- Dyes

2) PRIMER Liquid B

Principal ingredients:

- 2-Hydroxyethyl methacrylate (HEMA)
- Hydrophilic aliphatic dimethacrylate
- Water
- Catalysts

3) Medi 2 BOND Liquid A

Principal ingredients:

- Bisphenol A diglycidylmethacrylate (Bis-GMA)
- 2-Hydroxyethyl methacrylate (HEMA)
- 10-Methacryloyloxydecyl dihydrogen phosphate (MDP)
- Hydrophobic aliphatic dimethacrylate
- Colloidal silica
- dl-Camphorquinone
- Accelerators

4) Medi 2 BOND Liquid B

Principal ingredients:

- Bisphenol A diglycidylmethacrylate (Bis-GMA)
- 2-Hydroxyethyl methacrylate (HEMA)
- Benzoyl peroxide
- Hydrophobic aliphatic dimethacrylate
- Colloidal silica
- 5) Accessories
- Mixing dish
- Light blocking plate
- Disposable brush

#### VIII. CLINICAL PROCEDURES

##### A. Direct filling restorations, cavity sealing and restoration of root surfaces using light-cure composite

###### A-1. Cleaning of tooth structure

An insufficiently cleaned cavity may impair the adhesive performance. Make sure the cavity is sufficiently cleaned.

###### A-2. Moisture control

In order to produce optimal result, avoid contamination of the treatment area (saliva, blood). A rubber dam is recommended to keep the tooth dry.

###### A-3. Cavity preparations

Remove any infected dentine using Medi-Caries Detector and prepare the cavity in the usual manner.

###### A-4. Pulp protection

Any actual or near pulp exposure area should be covered with a hard setting calcium hydroxide material. There is no need for cement lining or basing. Do not use eugenol materials for pulp protection.

###### A-5. Acid etching on uncut enamel

If there is a possibility of resin spreading over uncut enamel, apply **Medi Etch Gel** to the enamel, let it remain for 10 seconds, wash with water, and then dry.

#### [CAUTION]

The use of PRIMER alone does not sufficiently condition uncut enamel. Overfilling of resin onto unetched uncut enamel could cause marginal discoloration.

###### A-6. Tooth surface treatment

1. Dispense equal amounts of 2 Bond Primer Liquids A and B into a well of the mixing dish and mix immediately before application.
2. Apply the mixture to the entire cavity wall with a sponge or a disposable brush tip. Leave in place for

30 seconds. Use caution not to allow saliva or exudate to contact the treated surfaces for at least 30 seconds.

3. After conditioning the tooth surface for 30 seconds, evaporate the volatile ingredients with a mild oil-free air stream.

[CAUTION]

Avoid pooling of the primer. Also do not wash. Observe the specified mixing amount, drying.



Reference Number



Keep away from sunlight



Refer to instruction manual



Keep Dry



Storage temperature range



Expiry date



Date of Manufacture



Manufactures address

SwissMediTec



Swiss Quality

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