



# Hybrid Bond ONE

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## INSTRUCTIONS

**IMPORTANT :**  
READ ALL INSTRUCTIONS THOROUGHLY BEFORE USE.  
KEEP THIS LEAFLET AND REFER TO IT PERIODICALLY.

Dental bonding agent

## Hybrid Bond ONE

FOR DENTIST USE ONLY

### 1. What is Hybrid Bond ONE?

Hybrid Bond ONE is a single-bottle, self-etching and light-cured bonding system. It does not require acid-etching of dentin or cutting enamel before use. It is suitable for direct composite resin restoration using any kinds of curing light systems.

#### Indications:

Hybrid Bond ONE is suitable for light-cured direct composite resin restorations.

#### Contraindications:

Patients who have a history of severe allergic reactions to this product, methacrylate monomers or acetone.

#### Side effects:

In rare cases, components of Hybrid Bond ONE may lead to sensitization. In such cases, Hybrid Bond ONE should no longer be used.

### 2. Component

- ① Hybrid Bond ONE ----- 5mL

### 3. Composition

Hybrid Bond ONE is a liquid consisted of the following compositions.  
Methacrylate monomers, acetone, water, etc.

### 4. Precautions

#### 4.1 Safety

This product contains substances, which may cause allergic reactions. Read the following points below.

#### 1) Sensitivity

- ① Hybrid Bond ONE should not be used by clinicians or on patients who are sensitive to methacrylate monomer or acetone. If signs of irritation such as redness, edema or sore appear, stop using this product immediately and consult a physician.

#### 2) Precautions

- ① Avoid Hybrid Bond ONE contacts with soft tissue, skin or eyes. Use of rubber dam is recommended.  
② In case of contacting skin or mucosa, wipe off immediately with a cotton pledget moistened with alcohol then rinse thoroughly with running water. Contaminated mucosa or gingiva may look whitish, which will usually dissolve in a few days. To minimize contamination during process, place a high-speed evacuator near the tooth treated.  
③ Avoid accidental ingestion while applying and air blowing. If ingested, the patient must seek medical attention.  
④ If Hybrid Bond ONE contacts with the eye, immediately rinse thoroughly with running water and consult with an ophthalmologist.  
⑤ Dentists should wear protective gloves and eyewear.  
⑥ Proper eye protection is recommended when using curing light.  
⑦ Hybrid Bond ONE contains approx. 40 % acetone. Inhalation of a large amount of concentrated vapor may cause headache; therefore the treatment area should be well ventilated. In case of such severe inhalation of acetone, move the patient to fresh air.

#### 3) Flammability

- ① Hybrid Bond ONE is flammable. AVOID OPEN FLAME in use and storage.

#### 4) Pulp protection

- Do not allow Hybrid Bond ONE to contact directly with exposed pulp tissue.  
① When a treatment surface is close to the pulp, protect the pulp with appropriate material before using Hybrid Bond ONE.

#### 4.2 To get the best results with Hybrid Bond ONE

##### 1) Storage

- ① Store Hybrid Bond ONE in dark location between 1 and 30°C. High temperature above 30°C and direct sunlight should be avoided.  
② Do not use this product after the expiration date. See outer package for expiration date.

##### 2) Volatility

- ① Hybrid Bond ONE is highly volatile. Firmly recap the bottle immediately after use.

##### 3) Contamination

- ① To avoid contamination, do not mix the components with other materials nor switch the bottle caps. Dispose of leftover after each patient.

- ② Since phenolic substances (e.g. eugenol) inhibit polymerization, using eugenol-containing materials such as temporary cement and pulp protectant in conjunction with this product must be avoided.

#### 4) Product life time

- ① Product life time can be shortened depending on the circumstances of use. Read this instruction carefully before use.

#### 5) Sodium hypochlorite treatment

- ① When using sodium hypochlorite for the purpose such as cleaning tooth surface, it should be shorter than 1 minute. Rinse well with water before bonding.

#### 4.3 Disposal

Dispose of empty containers or package in accordance with the local waste regulations.

**As in any dental treatment, the patient's individual constitution and the unique requirements of clinical case must be considered before selecting materials and conditions for use.**

### 5. How to use Hybrid Bond ONE

#### ① Surface Preparation

- After preparation of the tooth surfaces in the usual manner, wash and blow-dry the prepared tooth surfaces.

##### Notes:

- The bond strength to enamel can be further improved by pretreatment of enamel for 5 - 10 seconds with a phosphoric etchant such as Super-Bond C&B Red Activator.
- Use an etchant according to the manufacturer's instructions for bonding to uncut enamel. For cut enamel, use an etchant as necessary.
- Do not use etchant containing silica. Silica might interfere the bond strength. We recommend the use of Super-Bond C&B Red Activator or Enamel Etchant Gel (from SUN MEDICAL CO., LTD.).

#### ② Application of Hybrid Bond ONE

##### a) Dispensation

- Dispense the necessary amount of Hybrid Bond ONE into the mixing well and firmly recap the bottle immediately.

##### Note:

- Avoid exposing Hybrid Bond ONE to an operating or ambient light.

##### b) Application

- Stir Hybrid Bond ONE with the applicator brush or sponge, then apply onto the prepared tooth surfaces and keep it moist for 20 seconds.
- Blow air for 5 to 10 seconds. Use a high-speed vacuum aspirator to prevent Hybrid Bond ONE from scattering.

##### Notes:

- Be sure to stir before use, since phase separation may occur in the mixing well.
- Use Hybrid Bond ONE within 3 minutes after dispensing, since operating light or ambient light may influence the performance.
- Be sure to perform a good air blow for a specified duration (5-10 sec), especially for deep cavities so that water can be completely removed.
- Dispensed Hybrid Bond ONE is intended for a single use only. It should be discarded after use. Do not re-use.

#### ③ Light-curing

- Curing light with a visible light curing unit

Type	Light intensity (mW/cm <sup>2</sup> )	Curing time (sec)
Halogen	≥ 400	5
LED		

##### Notes:

- Read the instruction of your irradiator to achieve proper polymerization. Please check the irradiator if the light intensity is appropriate, periodically.
- For a deep or complexed shape cavity where the light is difficult to reach, the light should be held perpendicular to the each surface of the cavity to be bonded.

#### ④ Restoration

##### a) Bonding of direct light-cured composite restorations.

- Place a composite resin and light-cure according to the manufacturer's instructions.
- For deep cavity, utilize incremental composite placement technique.