



Hybrid Bond

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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

FOR DENTIST USE ONLY

1. Product overview

Hybrid Bond Kit is a single-bottle, self-etching, self-priming, light-cured dentin bonding system. It does not require acid-etching of dentin or cut enamel surfaces before use.* It is suitable for use with directly applied composite resins and can be cured by any light-curing devices. Hybrid Bond Kit can also be used as the adhesive agent for indirectly fabricated restorations.

* See "Note" in section 5.① below

Indications:

- Bonding of direct light-cured composite restorations.
- Sealing hypersensitive areas of teeth.

2. Components

Hybrid Bond Kit

- ① Hybrid Bond Hybrid Base----- 1x3mL
- ② Hybrid Bond Hybrid Brushes ②----- 100brushes
- ③ Plastic Dispensing Dish ②----- 5pcs

■ Attached document: Instructions

3. Compositions

Hybrid Bond Hybrid Base: Methacrylate monomers, Acetone, Water, and the others.
 Hybrid Bond Hybrid Brushes: Aromatic amine, and the others.

4. Precautions

4.1 Safety

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

① Sensitivity

- Hybrid Bond Kit should not be used by clinicians or on patients who are methacrylate monomer-sensitive. If signs of irritation such as redness appear, stop using it immediately and consult a physician.

② Precautions

- Avoid contact of the Hybrid Bond Kit components with soft tissue, skin or eyes. Use of rubber dam is recommended.
- Contaminated skin or mucosa should be wiped off immediately with alcohol and then rinsed thoroughly with copious amounts of running water. In some cases contaminated mucosa or gingiva may whiten, which will usually disappear in a few days. To minimize contamination during blowing or coating, place an evacuator near the treated tooth.
- Avoid accidental ingestion while applying and rinsing this material. If ingested, the patient must seek medical attention.
- If Hybrid Bond Hybrid Brushes contact wet skin, the odor may remain.
- If the Hybrid Bond Kit components enter the eye, immediately rinse the eye thoroughly with running water. Then the patient should be examined by an ophthalmologist. Clinicians should use dental protective gloves.
- Hybrid Bond Hybrid Base contains approx. 40% acetone. Inhalation of a large amount of concentrated vapor may cause headache: therefore the area should be well ventilated. In case of such severe inhalation, move to fresh air.

③ Pulp protection

- If the preparation approaches the pulp, apply a protective liner or base.

④ Flammability

- Hybrid Bond Hybrid Base is flammable. **AVOID OPEN FLAME** in use and storage.

⑤ Applications

- Use Hybrid Bond Kit only for the applications recommended in the instructions.

4.2 To get the best results

① Hybrid Bond Hybrid Brushes

- Hybrid Bond Hybrid Brushes contain a bonding promoter and are an important component of Hybrid Bond Kit.
- Always apply Hybrid Bond Kit using Hybrid Bond Hybrid Brushes and **do NOT substitute any other brushes.**
- Hybrid Bond Hybrid Brushes should not be stored in high humidity.

② Storage

- Store Hybrid Bond Kit in a dark location between 4°C and 30°C, preferably in a refrigerator, but **do NOT freeze Hybrid Bond Kit.** If frozen, phase separation will occur. High temperature and direct sunlight should be avoided. Hybrid Bond Hybrid Brushes are slightly hygroscopic.

③ Product lifetime

Product lifetime can be shortened depending on the circumstances of use. Read all provided instructions carefully before use.

④ Volatility

Hybrid Bond Hybrid Base is highly volatile. **Firmly recap the bottle immediately after use.**

⑤ Contamination

To avoid contamination, do not mix the components with those of other materials, nor mix the bottle caps. Particularly, do not mix Hybrid Bond Hybrid Brushes with other mini-brushes. After use, dispose of leftover material. Once dispensed, do not return the materials to their original container.

4.3 Disposal

- Dispose of empty containers and packages in accordance with local regulations.

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

5. How to use

① Surface Preparation

Prepare tooth using an instrument such as fine-grit point so that the smear layer becomes minimal. After tooth preparation, wash and blow-dry the surface.

Note: 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 but do NOT use silica- thickened phosphoric etchant which will compromise the bond strength.

Fluorinated enamel should be always etched as above.

② Application of Hybrid Bond Hybrid Base

a) Dispensation

- Dispense one drop (up to 3 drops for a larger surface) of Hybrid Bond Hybrid Base in the well of a Plastic Dispensing Dish and firmly recap the bottle immediately.
- Stir the expressed liquid in the well with a Hybrid Bond Hybrid Brushes for a few seconds.

Note: The liquid in the well should be used within 3 minutes to minimize evaporation.

b) Application

- After stirring with the Hybrid Bond Hybrid Brushes, apply onto the prepared tooth surfaces and keep it moist for 20 seconds.
- Air-blow the solvents for 5 - 10 seconds until the tooth surfaces appear smooth and shiny.

Note: Mixed liquid and Plastic Dispensing Dish are intended for single use only, and should be discarded after use. Do not re-use.

③ Light-curing

Irradiate light with a visible light curing unit.

Type	Light intensity (mW/cm ²)	Curing time (sec)	
		Indirect	Direct
Conventional halogen	120<	5-10	3-5
LED	600-800	5	3-5

Note: Hybrid Bond Kit is compatible with any currently available curing lights. With a fast light, the irradiation time should be shortened according to the instruction of the manufacturer and reflecting the above shorter irradiation time for **direct restorations.**

④ Restoration

a) Direct restoration with a composite resin

Place a composite resin and light-cure according to the manufacturer's instructions. For deep cavities use incremental composite placement and, where applicable, line with a flowable resin.

b) Indirect restoration

- Wipe the surface of the light-cured Hybrid Bond with an alcohol cotton pellet to remove the air-inhibited layer. Where necessary, re-shape the margin.
- Take an impression using a material of your choice.
- Temporize and fabricate the prosthesis. If a temporary resin is used, apply a separating agent beforehand to avoid inadvertent bonding to the tooth.
- Remove the temporary, wash and dry the cavity.
- Apply a luting agent of your choice and place the prosthesis.
- Resin-based dental materials or Eugenol-containing dental materials should not be used with this material for temporary.