



Bringing **Science** to the *Art* of Dentistry

ALL-BOND 3™*
Dual-Cured Universal Dental Adhesive System
Instructions for Use

GENERAL INFORMATION

ALL-BOND 3 is a dual-cured, 3-step universal dental adhesive system that is compatible with all dental materials. It utilizes improved ALL-BOND 2^{®*} technology, making **ALL-BOND 3** relatively more hydrophobic to enhance the durability of the bond. The new ethanol-based formula requires less number of coats and is more user-friendly than ALL-BOND 2.

ALL-BOND 3 RESIN is a hydrophobic, radiopaque, filled bonding resin. Its radiopacity outlines the restoration and reduces the risk of misdiagnosing caries. **ALL-BOND 3 RESIN** is HEMA-Free. The absence of HEMA in the resin layer is a desirable feature that makes the bonding layer less prone to water sorption. Water sorption can be a critical cause in degradation of the bond as well as promotion of further decay in the tooth structure. Hydrophobic adhesives are expected to be more durable than current formulas in the market.

Indications for Use

1. Direct Composite Restorations
2. Composite Core Build-Ups
3. Desensitization of Crown Preparations Prior to Impression Making/Provisionalization
4. Indirect Restorations (Metal, Porcelain and Composite)
5. Endodontic Post Bonding
6. Porcelain Repair
7. Composite Repair
8. Composite to Metal/Set Amalgam (Direct Metal/Alloy Veneering)
9. Exposed Root Desensitization

INSTRUCTIONS FOR USE

1. For Direct Composite Restorations and

2. For Composite Core Build-Ups:

1. Etch the preparation for 15 seconds using UNI-ETCH^{®*} w/ BAC and rinse thoroughly. Remove excess water using a foam pellet, leaving the preparation visibly moist.
2. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** (1:1) into a mixing well. Using a brush, mix well for 5 seconds.
3. Apply 1-2 coats onto the tooth preparation.
4. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 4.
5. Light cure for 10 seconds at 500mW/cm².
6. Apply one thin coat of **ALL-BOND 3 RESIN**. Air thin if necessary.
7. Light cure for 10 seconds at 500mW/cm².
8. Continue with placement of restorative material.

3. For Desensitization of Crown Preparations Prior to Impression Making/Provisionalization:

1. Follow steps 1-7 on previous page, then remove the oxygen-inhibited layer with an alcohol-moistened cotton pellet or 2x2 gauze and make the impression.
2. Continue with temporization procedure. It is recommended to coat the preparation with a water-based lubricant leaving 1-2mm at the margins for adhesion of the temporary cement.

4. For Indirect Restorations (Composite, Metal, Porcelain)

Tooth Preparation:

1. Etch the preparation using UNI-ETCH w/ BAC for 15 seconds and rinse thoroughly. Remove excess water using a foam pellet, leaving the preparation visibly moist.
2. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** (1:1) into a mixing well. Using a brush, mix well for 5 seconds.
3. Apply 1-2 coats onto the tooth preparation.

4. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 4.
5. Light cure for 10 seconds at 500mW/cm².
NOTE: It is not necessary to use **ALL-BOND 3 RESIN**.
6. Continue with cementation procedure.

Indirect Restoration Preparation:

For metal or composite indirect restorations:

1. Prepare the internal surface of the restoration according to instructions provided by the laboratory.
2. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B (1:1)** into a mixing well. Using a brush, mix well for 5 seconds.
3. Apply 1-2 coats to the internal surface of the restoration.
4. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 4.
5. Light cure for 10 seconds at 500mW/cm².

For all-ceramic restorations:

IMPORTANT: Since different ceramics require different surface treatments, contact laboratory for proper internal surface treatment instructions.

1. If the laboratory recommends silanation, apply 1-2 thin coats of silane, such as BIS-SILANE^{TM*}, to the internal surface and wait for 30 seconds. Dry with air syringe.
NOTE: Surface of the porcelain will not look any different than prior to BIS-SILANE application.
- 2a. **For All-Ceramic Restorations Except Veneers:** Dispense an equal number of drops of **ALL-BOND 3 Parts A and B (1:1)** into a mixing well. Using a brush, mix well for 5 seconds. Apply 1-2 coats to the internal surface of the restoration.

b. **For Veneers:** Apply 1-2 coats of PORCELAIN BONDING RESIN* instead of **ALL-BOND 3 Parts A and B** to the internal surface of the restoration to maintain long-term shade stability. Do NOT light cure. Skip Steps 3 and 4.
3. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 3.
4. Light cure for 10 seconds at 500mW/cm².

5. For Endodontic Post Bonding:

1. Prepare post space according to manufacturer's instructions. If a metal post is used, prepare the surface of the post per manufacturer's instructions.
2. Etch the canal using UNI-ETCH w/ BAC for 15 seconds. Rinse thoroughly and remove excess water with a brief burst of air or a paper point to remove any pooled water from the canal.
3. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** (1:1) into a mixing well. Using a brush, mix well for 5 seconds. With an endodontic brush, apply 1 coat of **ALL-BOND 3 Parts A and B** into the canal. Remove excess pooling of material with paper points or light suction. Follow with a gentle stream of air to thoroughly air dry. Light-curing is not necessary due to the dual-cure capability of **ALL-BOND 3**.

NOTE: The paper point step is important for removal of any pooled adhesive so that there is no interference in complete seating of the post.

4. Apply one layer of **ALL-BOND 3 Parts A and B** to the post and gently air dry. Light cure for 10 seconds at 500mW/cm². Proceed with post cementation per manufacturer's instructions.

6. For Porcelain Repair:

1. Isolate the area to be repaired with a rubber dam.
2. It is best to prepare the porcelain using a long bevel.
3. Sandblast exposed metal and/or surrounding porcelain to be repaired for 1-2 seconds. An alternative to sandblasting is to abrade surfaces with a coarse diamond bur. Rinse with water and air dry.
4. BARRIER GEL* may be placed to protect soft tissue and other areas where etching is not desired.

WARNING: There are several **PRECAUTIONS** that must be adhered to when working with PORCELAIN ETCHANT. **DO NOT** use PORCELAIN ETCHANT until you have **read and understood** the instructions that pertain to that product: 4% or 9.5% PORCELAIN ETCHANT Instructions For Use.

5. Apply BISCO's PORCELAIN ETCHANT*● to the dried repair site and allow to dwell for 5-6 minutes for 4% PORCELAIN ETCHANT and 1-2 minutes for 9.5% PORCELAIN ETCHANT. To evacuate hydrofluoric acid vapors, hold evacuator tip adjacent to repair site. Monitor the etch site throughout the entire procedure.

CAUTION: *Prior to intraoral use, confirm that PORCELAIN ETCHANT syringe tip is adequately placed and tightly attached. Test the etchant to confirm that it is flowing freely from the syringe tip by expressing a small amount onto a mixing pad.*

If there is resistance to flow, DO NOT proceed. Replace tip and test flow again before using on patient.

● **NOTE:** Not all ceramic systems are etchable and etching times may vary with various ceramic materials.

6. Apply high-speed suction to remove the PORCELAIN ETCHANT. Rinse with copious amounts of water and air dry. The etched surface should appear dull and frosty.
7. Apply 1-2 thin coats of silane such as BIS-SILANE to the etched porcelain surface and allow it to dwell for 30 seconds. Air dry to evaporate the solvent.
8. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** (1:1) into a mixing well. Using a brush, mix well for 5 seconds. Apply 1-2 coats to the metal and porcelain surfaces. Gently air dry to evaporate the solvent. Light cure for 10 seconds at 500mW/cm².
9. If metal is visible, apply DUAL-CURED OPAQUER*: Shake bottles and mix base and catalyst (1:1) in a mixing well. Apply a thin layer to mask the metal. Light cure for 30 seconds at 500mW/cm².
10. Proceed with composite layering and finishing. The preferred composite should be a hybrid or nano-hybrid such as AELITE^{TM*} ALL-PURPOSE BODY. Pure microfilled or nanofilled composites are not recommended for porcelain repair due to low impact strengths.

7. For Composite Repair:

1. Remove layer of old composite and bevel enamel margin, if present.
2. Etch the preparation using UNI-ETCH w/ BAC for 15 seconds, rinse thoroughly and air dry. If dentin is present, leave the dentin visibly moist.
3. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** (1:1) into a mixing well. Using a brush, mix well for 5 seconds.
4. Apply 1-2 coats onto the composite and tooth structure.
5. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 5.
6. Light cure for 10 seconds at 500mW/cm².
7. Proceed with composite layering and finishing.

8. For Composite to Metal / Set Amalgam (Direct Metal/Alloy Veneering):

1. Prepare metal surface per manufacturer's instructions. Rinse with water and air dry.
2. If tooth structure is present, etch with UNI-ETCH w/ BAC for 15 seconds and rinse thoroughly. Remove excess water using a foam pellet, leaving the preparation visibly moist.
3. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** into a mixing well. Using a brush, mix well for 5 seconds.
4. Apply 1-2 coats onto the metal and tooth structure.
5. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 5.
6. Light cure for 10 seconds at 500mW/cm².
7. Apply DUAL-CURED OPAQUER: Shake bottles and mix base and catalyst (1:1) in a mixing well. Apply a thin layer to mask metal. Light cure for 30 seconds at 500mW/cm².
8. Proceed with composite layering and finishing.

9. For Exposed Root Desensitization:

1. Etch the dentin using UNI-ETCH w/ BAC for 15 seconds and rinse thoroughly. Remove excess water using a foam pellet, leaving the preparation visibly moist.
2. Dispense an equal number of drops of **ALL-BOND 3 Parts A and B** into a mixing well. Using a brush, mix well for 5 seconds.
3. Apply 1-2 coats onto the tooth preparation.
4. Gently but thoroughly air dry until there is no visible movement of the material. The surface should appear shiny; otherwise, apply additional coats of **ALL-BOND 3** and repeat Step 4.
5. Light cure for 10 seconds at 500mW/cm².
6. Apply a thin coat of **ALL-BOND 3 RESIN**. Air thin if necessary.
7. Light cure for 10 seconds at 500mW/cm².
8. Remove the oxygen-inhibited layer with an alcohol-moistened cotton pellet or 2x2 gauze.

STORAGE: Store at room temperature (22°C/72°F). Refer to individual component labels for specific expiration dates.

PRECAUTIONS: Unpolymerized resins may cause skin sensitization in susceptible persons. In case of contact with the skin, wash thoroughly with soap and water.

WARRANTY: BISCO, Inc. recognizes its responsibility to replace products if proven to be defective. BISCO, Inc. does not accept liability for any damages or loss, either direct or consequential, stemming from the use of or inability to use the products as described. Before using, it is the responsibility of the user to determine the suitability of the product for its intended use. The user assumes all risk and liability in connection therewith.

CAUTION: U.S. Federal law restricts this device to sale by or on the order of a dental professional.

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See also U.S. Patent 5,348,988.
Patent Pending