

*Bisco*

*Single Component*

C € 0459

# ***PORCELAIN PRIMER***

*Pre-Hydrolyzed Silane Primer*

## Instructions for Use



**BISCO**

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# PORCELAIN PRIMER\*

## Pre-Hydrolyzed Silane Primer

### GENERAL INFORMATION

**PORCELAIN PRIMER** is a single component silane coupling agent in an alcohol and acetone base that is used to improve the adhesive bond between porcelain and composite. Silane is a dual function monomer consisting of a silanol group that reacts with the porcelain surface, and a methacrylate group that co-polymerizes with the resin matrix of the composite. Silane coupling agents are known to enhance the wettability of glass substrates by composite resins, increase physical, mechanical and chemical bonding of composite to porcelain, and yield a greater resistance to water attack at the bonding interface.

Prior to applying silane, the porcelain repair site must be etched with **PORCELAIN ETCHANT\*** (4% or 9.5% hydrofluoric acid). This process allows porcelain to become not only highly porous, but also highly receptive to the silane by creating reactive hydroxyl groups on the surface of the porcelain.

#### Indications For Use:

- A. Bonding Etched Porcelain/Lithium Disilicate Restorations
- B. Repair of Porcelain/Lithium Disilicate Restorations
- C. Repair of Porcelain-Fused-to-Metal
- D. Repair of Porcelain-Fused-to-Zirconia/Alumina

#### Warnings:

- Highly Flammable
- Avoid splashing into the eyes. If **PORCELAIN PRIMER** comes into contact with the eyes, flush with copious amounts of water and seek medical attention.
- Isolation required for intra-oral repairs, contamination will seriously compromise bonding.

#### Cautions:

- Cross-contamination: Product may contain items that are designed for one time use. Dispose of used or contaminated accessories. Do not clean, disinfect or reuse.

#### Precautions:

- **PORCELAIN PRIMER** may cause skin sensitization in susceptible persons. In case of contact with the skin, wash thoroughly with soap and water.
- Contamination by saliva, blood, or water should be avoided during these procedures.
- Safety data sheet available on request.
- Safety data sheet available at [www.Bisco.com](http://www.Bisco.com).

### INSTRUCTIONS FOR USE

#### A. Bonding Etched Porcelain/Lithium Disilicate Restorations:

**NOTE:** If the laboratory has not etched the porcelain restoration, contact lab and/or ceramic manufacturer for proper etching instructions. Related BISCO products include 4% and 9.5% **PORCELAIN ETCHANTS** (Buffered Hydrofluoric Acid Gels).

1. Brush on 1-2 thin coats of **PORCELAIN PRIMER** to the internal surface of the etched porcelain restoration and wait for 30 seconds. Dry with (warm) air syringe.

**NOTE:** Surface of the porcelain will look the same prior to and after **PORCELAIN PRIMER** application.

2. Apply a layer of **PORCELAIN BONDING RESIN\*** (HEMA-free resin) to the internal surface of the restoration, air thin. Do NOT light cure!

**OR** apply adhesive according to manufacturer's instructions.

3. Continue with cementation procedures.

#### B. Repair of Porcelain/Lithium Disilicate Restorations:

1. Isolate the area to be repaired.
2. Remove the glaze and bevel (45°) the porcelain around the area to be repaired. Sandblast entire area or abrade with a coarse diamond bur. Rinse with water and air dry.
3. Place **BARRIER GEL\*** on gingival tissue that may be exposed or porcelain to protect areas where etching is not desired.
4. Apply **PORCELAIN ETCHANT** to the dry porcelain surface according to manufacturer's instructions. Continue to observe the etch site throughout the entire procedure. Suction the **PORCELAIN ETCHANT**, then rinse with a copious amount of water and air dry. The etched surface should appear dull and frosty.
5. Clean the etched porcelain by applying **UNI-ETCH\*** and agitate for 20 seconds to remove any salts. Rinse and dry thoroughly.
6. Apply 1 thin coat **PORCELAIN PRIMER** to the etched porcelain surface and allow to dwell for 30 seconds. Dry with (warm) air syringe.
7. Apply a layer of **PORCELAIN BONDING RESIN**, air thin (light cure optional).
8. Complete the repair using a microhybrid composite (e.g. **ÆLITE™** All-Purpose Body) and finish/polish.

### **C. Repair of Porcelain-Fused-to-Metal:**

1. Isolate the area to be repaired.
2. Remove the glaze and bevel the porcelain (45°) around the area to be repaired. Sandblast entire area or abrade with a coarse diamond bur. Rinse with water and air dry.
3. Place BARRIER GEL on gingival tissue and metal that may be exposed to protect areas where etching is not desired.
4. Apply PORCELAIN ETCHANT to the dry porcelain surface according to manufacturer's instructions. Continue to observe the etch site throughout the entire procedure. Suction the PORCELAIN ETCHANT, then rinse with a copious amount of water and air dry. The etched surface should appear dull and frosty.
5. Clean the etched porcelain by applying UNI-ETCH and agitate for 20 seconds to remove any salts. Rinse and dry thoroughly.
6. Apply 1 thin coat of **PORCELAIN PRIMER** to the etched porcelain surface and allow to dwell for 30 seconds. Dry with (warm) air syringe.
7. Apply 1-2 coats of Z-PRIME™ Plus to the exposed metal and dry with an air syringe for 3-5 seconds.
8. Shake OPAQUER\* Base and Catalyst bottles well before dispensing. Dispense one drop each of Catalyst and Base onto a mixing pad, and mix with a brush tip. Apply a thin coat of OPAQUER only to the metal surface and allow to self-cure, or light cure for 5 seconds.
9. Apply a layer of PORCELAIN BONDING RESIN, air thin (light cure optional).
10. Complete the repair using a microhybrid composite (e.g. AELITE All-Purpose Body) and finish/polish.

### **D. Repair of Porcelain-Fused-to-Zirconia/Alumina:**

1. Isolate the area to be repaired.
2. Remove the glaze and bevel the porcelain (45°) around the area to be repaired. Sandblast entire area or abrade with a coarse diamond bur. Rinse with water and air dry.
3. Place BARRIER GEL on gingival tissue and alumina/zirconia that may be exposed to protect areas where etching is not desired.
4. Apply PORCELAIN ETCHANT to the dry porcelain surface according to manufacturer's instructions. Continue to observe the etch site throughout the entire procedure. Suction the PORCELAIN ETCHANT, then rinse with a copious amount of water and air dry. The etched surface should appear dull and frosty.
5. Clean the etched porcelain by applying UNI-ETCH and agitate for 20 seconds to remove any salts. Rinse and dry thoroughly.
6. Apply 1 thin coat of **PORCELAIN PRIMER** to the etched porcelain surface and allow to dwell for 30 seconds. Dry with (warm) air syringe.
7. Recommended: Apply 1-2 coats of Z-PRIME Plus to the exposed zirconia/alumina and dry with an air syringe for 3-5 seconds.
8. Apply a layer of PORCELAIN BONDING RESIN over porcelain and zirconia or alumina, air thin (light cure optional).
9. Complete the repair using a microhybrid composite (e.g. AELITE All-Purpose Body) and finish/polish.

**DISPOSAL:** Refer to community provisions relating to waste. In their absence, refer to national or regional provisions relating to waste.

**STORAGE:** Store at room temperature (20°C/68°F - 25°C/77°F). Refer to individual component labels for specific expiration dates.

**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.

\* PORCELAIN PRIMER, PORCELAIN ETCHANT, PORCELAIN BONDING RESIN, BARRIER GEL and OPAQUER are manufactured by BISCO, Inc.  
UNI-ETCH is a registered trademark of BISCO, Inc.  
AELITE and Z-PRIME are trademarks of BISCO, Inc.

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