*Bisco* CE 0459

# *PORCELAIN ETCHANT (4% HF)*

## *4% Buffered Hydrofluoric Acid Gel*

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**Caution:** U.S. Federal law restricts this device to sale by or on the order of a licensed Dentist.

**PORCELAIN ETCHANT**
**4% Buffered Hydrofluoric Acid Gel**

## GENERAL INFORMATION

**PORCELAIN ETCHANT** is a 4% buffered hydrofluoric acid gel that must be handled with extreme care (See **WARNINGS**). BISCO'S **4% PORCELAIN ETCHANT** has been buffered, gelled and packaged to minimize problems, provided that it is used in accordance with these instructions. **PORCELAIN ETCHANT** improves the mechanical bond between porcelain and adhesive/cement by increasing the surface area of the porcelain. The effect is similar to sandblasting but is more controlled and effective.

**Indications for Use:**
The principle use of **4% PORCELAIN ETCHANT** is for etching porcelain prior to:
1. Cementation of porcelain restorations.
2. Repair of porcelain restorations.

**Warnings:**
- Do not use this product until you have thoroughly read and understood these instructions.
- Hydrofluoric acid is a very powerful and aggressive chemical.
  - It is a severe eye and tissue irritant. If accidentally splashed into the eye, flush with copious amounts of water for 15 minutes and seek immediate medical attention.
  - Hydrofluoric acid also releases a vapor that irritates respiratory passageways. Chronic inhalation of fumes is dangerous and can cause damage.
  - Extreme care must be taken to protect the patient, operator and assistant.
  - These individuals must wear protective eyewear.
  - The operator and assistant must wear protective gloves.
  - **Rubber dam isolation must be used for intraoral porcelain repair.**
- DO NOT use **PORCELAIN ETCHANT** to etch exposed enamel or dentin surfaces.
- Injury may result if **PORCELAIN ETCHANT** is allowed to remain on the skin or mucosa for extended periods of time. Contact with other tissues: rinse spills immediately with a copious amount of water for several minutes.
- Verify flow of etchants prior to applying intraorally. If resistance is met, replace tip and re-check. Use only recommended tips.
- Do not allow any product to be ingested.
- Re-cap syringe with the luer lock cap.

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

**Precautions:**

- Do not re-etch restorations that have been etched by the lab. Over etching porcelain may cause weakening of porcelain or degradation of bond strength.
- **PORCELAIN ETCHANT** will microscopically roughen porcelain and glass surfaces. As such, care must be taken to avoid having the etchant contact glazed porcelain surfaces since these surfaces will lose their gloss.
- Safety data sheet available on request.
- Safety data sheet available at www.Bisco.com.

## INSTRUCTIONS FOR USE

### 1. ETCHING PORCELAIN RESTORATIONS PRIOR TO CEMENTATION

1. Protective eyewear and gloves must be worn by operator and assistant.
2. If the lab has not already etched the restoration, remove cap from **PORCELAIN ETCHANT**, securely attach dispensing tip and verify etchant flow prior to application. Apply **PORCELAIN ETCHANT** (4% HF) to the dry porcelain surface for 5-6 minutes. Care must be taken to avoid having the etchant contact glazed porcelain surfaces since these surfaces will lose their gloss.
3. Rinse with a copious amount of water and air dry. The etched surface should appear dull and frosty (if porcelain has a white/chalky appearance, agitate a moist microbrush on the porcelain to remove salt and debris created by etching).
4. Apply one to two thin coats of silane with a brush to the etched internal surface of the restoration according to manufacturer instructions. Dry with air syringe.
5. Proceed with adhesive applications and cementation according to the manufacturer's instructions.

### 2. REPAIR OF PORCELAIN RESTORATIONS

1. Protective eyewear must be worn by patient, operator and assistant. Protective gloves must be worn by operator and assistant.
2. Remove the glaze & bevel (45 degree) the porcelain around the area to be repaired. (Remove any old composite remaining from previous repairs.)
3. Isolate the area to be etched with a rubber dam. BISCO'S BARRIER GEL* should be placed where etching is not desired.
4. Remove cap from **PORCELAIN ETCHANT**, securely attach dispensing tip and verify etchant flow prior to applying intraorally. Apply **PORCELAIN ETCHANT** (4% HF) to the dry porcelain surface for 5-6 minutes. 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 (if porcelain has a white/chalky appearance, agitate a moist microbrush on the porcelain to remove salt and debris created by etching, rinse and dry).
5. Apply one to two thin coats of silane with a brush to the etched surface of the restoration and allow to dwell for 30 seconds. Dry with air syringe.
6. Apply an adhesive system according to the manufacturer's instructions. Complete the repair with composite and finish/polish.
   **NOTE: For repairs with exposed Metal, Alumina, Zirconia or Composite, see the instructions for BISCO's INTRAORAL REPAIR KIT***

* BARRIER GEL and INTRAORAL REPAIR KIT are manufactured by BISCO, Inc.

**HYGIENE:** Re-cap syringes with the luer lock cap. Use of commonly available hygienic protective covering to avoid any contamination of syringes during treatment is recommended.

**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/72°F).

**WARRANTY:** BISCO, Inc. recognizes its responsibility to replace products if proven 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.

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