**BARRIER GEL**

BARRIER GEL should be placed where porcelain etching is not desired. Care must be taken to avoid having the etchant contact glazed porcelain surfaces since these surfaces will lose their gloss.

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**PORCELAIN ETCHANT**

It is very important to properly treat the porcelain to ensure that the repair is long-lasting. Porcelain may be treated via sandblasting the surface or by using a hydrofluoric acid.

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**PORCELAIN PRIMER (SILANE)**

A silane coupling agent should be used in order to improve the adhesion to the porcelain and enhances the long-term durability of the repair.

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**PORCELAIN BONDING RESIN**

When placed in a thin layer on the restoration, it will not only enhance the bond of the restoration, it will act as a wetting resin allowing the composite to spread evenly over the entire surface.

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**ZIRCONIA - ALUMINA – METAL PRIMER**

Z-PRIME™ Plus provides the highest bond strengths to Zirconia and Alumina metal oxide ceramics as well as other types of metals/alloys and composites.

Patent No. 8,785,518

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**OPAQUER**

Some porcelain repair cases involve trying to mask exposed metal. The use of composite alone often times will not successfully block the dark metal hue, and an opaquer must be used. An opaquer (by definition) is opaque and therefore must be dual-cured to ensure complete polymerization.

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**Porcelain Repair Kit Contents**

- 1 Bottle PORCELAIN PRIMER (3ml)
- 1 Syringe 9.5% PORCELAIN ETCHANT (5g)
- 1 Syringe BARRIER GEL (5g)
- 1 Bottle Z-PRIME™ Plus (2ml)
- 1 Bottle PORCELAIN BONDING RESIN (6ml)
- 1 Bottle OPAQUER Catalyst (3ml)
- 1 Bottle OPAQUER Base Universal (3ml)
- Accessories
- Instructions

**Manufacturer**

BISO, INC.
1100 W. Irving Park Road
Schaumburg, IL 60193
U.S.A.
847-534-6000
1-800-BIS-DENT
www.bisco.com

BISICO France
120, allée de la Coudoulette
13680 Lançon de Provence
France
33-4-90-42-92-92

**Recommended Storage Temp.**

Refrigerate

**Rx Only**

For Dental Use Only

Consult Instructions For Use

Caution

Toxic

Corrosive

Flammable

Irritant

Sensitizer

**CE 0459**
# Repair of Porcelain-Fused-to-Metal or Zirconia/Alumina Restorations

## Step 1
Always use a rubber dam. The use of a rubber dam during porcelain repair provides several benefits, including isolation from saliva during bonding and soft-tissue protection when using hydrofluoric acid intraorally.

## Step 2
Remove the glaze & bevel (45 degree) the porcelain around the area to be repaired. Place BARRIER GEL on gingival tissue that may be exposed or porcelain to protect areas where etching is not desired.

## Step 3
Remove cap from PORCELAIN ETCHANT, securely attach dispensing tip and verify etchant flow prior to applying intraorally. Apply PORCELAIN ETCHANT (9.5% HF) to the dry porcelain surface for 90 seconds. 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). **NOTE:** Porcelain may be sandblasted or abraded with a coarse diamond bur as an alternative to Hydrofluoric Acid Etching.

**SEE INSTRUCTIONS FOR ADDITIONAL WARNINGS RELATED TO PORCELAIN ETCHANT**

## Step 4
Apply 1-2 coats of Z-PRIME™ Plus to the exposed metal/zirconia/alumina & dry with an air syringe for 3-5 seconds.

## Step 5
Apply 1 coat of PORCELAIN PRIMER to the etched porcelain surface and allow to dwell for 30 seconds. Dry with air syringe.

## Step 6
If metal masking is required, 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.

## Step 7
Allow to self cure, or light cure for 5 seconds. An oxygen inhibited layer will be present on the surface once the curing process has completed. This is normal for this material.

## Step 8
Apply a thin layer of PORCELAIN BONDING RESIN to the repair site. Spread composite evenly over the surface and light cure.

## Step 9
Complete the repair and finish/polish.

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**WARNING:** Do not use this product until you have thoroughly read and understood these instructions.

See instructions for use for the following repairs:
- Repair of Porcelain & Lithium Disilicate Restorations
- Repair of Old or Indirect Composite Restorations