

**Bisco**

**CE 0459**

**Z-PRIME™ PLUS** *Light-Cured*

***Zirconia - Alumina - Metal Primer***

## Instructions for Use



Bringing Science to  
the *Art* of Dentistry™

Patent Pending

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Rev. 3/11

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

# **Z-PRIME™\* Plus** **Zirconia - Alumina - Metal Primer**

## **GENERAL INFORMATION**

BISCO's **Z-PRIME Plus** is a single-component priming agent used to enhance adhesion between indirect restorative materials and composite resin cements. Due to its unique chemistry it can be used as a surface treatment of Zirconia and Alumina metal oxide ceramics as well as other types of metals/alloys, composites and endodontic posts. **Z-PRIME Plus** has been specifically formulated to provide high bond strengths in any curing mode.

### **Indications for use:**

BISCO's **Z-PRIME Plus** is intended for use as a surface treatment for the following restorations:

1. Zirconia
2. Alumina
3. Metal/alloy
4. Composite
5. Endodontic Post
6. Intraoral repairs

### **Warnings:**

- Highly flammable.

### **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:**

- **Z-PRIME Plus** is a light sensitive material. Use **Z-PRIME Plus** immediately once it is dispensed in the mixing well or protect from ambient light.
- For intraoral repairs properly isolate the restorative area with a rubber dam.
- Avoid contact with the skin, unpolymerized resins may cause skin sensitization in susceptible persons. In case of contact, wash skin with soap and water.
- See individual component labels for specific expiration dates.

## **INSTRUCTIONS FOR USE**

### **Restoration Preparation**

#### **Zirconia Restorations/Alumina Restorations, Metal/Alloy Restorations (including Porcelain Fused to Metal), Indirect Composite Restorations, Endodontic Post Restorations:**

1. Clean the internal surface of the restoration\*; rinse and air dry.
  2. Apply 1-2 coats of **Z-PRIME Plus**, uniformly wetting the bondable surface. Dry with an air syringe for 3-5 seconds.
  3. Proceed with cementation using a luting cement (e.g. DUO-LINK™\* or BisCem®\*).
- NOTE: Z-PRIME Plus** improves the bond to all resin cements.
- \* *Surface can be cleaned using one or more of the following options: pumice scrub, ultrasonic cleaning (with alcohol or acetone), steam cleaning, and/or sand blasting using aluminum oxide (30-100 micron grit at 30-45 psi.)*

### **For intraoral repairs**

**NOTE:** Properly isolate the restorative area with a rubber dam.

#### **Repair of Zirconia/Alumina or Metal Restorations:**

1. Roughen the surface using air abrasion, diamond point or bur. Rinse and air dry.
2. Apply 1-2 coats of **Z-PRIME Plus**. Dry with an air syringe for 3-5 seconds.
3. Complete the repair using a composite (e.g. REFLEXIONS™\* or AELITE™\*) and finish per manufacturer's instructions.

### **Repair of Porcelain-Fused-to-Zirconia/Alumina/Metal Restorations:**

1. Bevel the porcelain as necessary.
2. Roughen the metal surface using air abrasion, diamond point or bur.
3. Etch the porcelain surface with hydrofluoric acid (e.g. 9.5% PORCELAIN ETCHANT\*) according to the manufacturer's instructions.
4. Apply 1-2 coats of **Z-PRIME Plus** to the exposed zirconia/alumina/metal & dry with an air syringe for 3-5 seconds.
5. Apply 1-2 coats of silane (e.g. BIS-SILANE™\* or PORCELAIN PRIMER\*) to the porcelain according to the manufacturer's instructions & dry with an air syringe to evaporate the solvent.
6. Apply an opaquer (e.g. Bisco's DUAL-CURED OPAQUER) to exposed metal according to manufacturer's instructions, if desired.
7. Complete the repair using a composite (e.g. REFLEXIONS or ÆLITE) and finish per manufacturer's instructions.

### **Repair of Composite Restorations:**

1. Bevel the margin.
2. Roughen surface using air abrasion, diamond point or bur. Rinse and air dry.
3. Apply 1-2 coats of **Z-PRIME Plus**. Dry with an air syringe for 3-5 seconds.
4. Complete the repair using a composite (e.g. REFLEXIONS or ÆLITE) and finish per manufacturer's instructions.

**STORAGE:** Store **Z-PRIME Plus** at (2°C/36°F - 25°C/77°F). See 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 damage or loss, 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.

\* Z-PRIME, DUO-LINK, REFLEXIONS, ÆLITE and BIS-SILANE are trademarks of BISCO, Inc.  
BisCem is a registered trademark of BISCO, Inc.  
9.5% PORCELAIN ETCHANT and PORCELAIN PRIMER are manufactured by BISCO, Inc.

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