

*Bisco*

CE 0459

**BisCover<sup>TM</sup> LV**

**Light-  
Cured**

***Low Viscosity Liquid Polish***

**Cures with LED, Halogen and PAC Lights**

## Instructions for Use



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

# BisCover™\* LV

## Low Viscosity Liquid Polish

### GENERAL INFORMATION

**BisCover LV** is a low-viscosity, light-cured resin formulation used to seal the surface of restorations while leaving a smooth polished/glazed surface. Due to its unique proprietary chemistry, **BisCover LV** cures without any sticky oxygen-inhibited layer. **BisCover LV** may reduce or even eliminate the need for manual polishing. The unique chemistry of **BisCover LV** allows for the use of LED, PAC, and halogen curing lights to achieve polymerization.

#### Indications For Use

**BisCover LV** is used to seal and polish/glaze:

- A. Newly placed direct composites (cured only)
- B. Previously placed direct composites
- C. Provisionals
- D. Resin-modified glass ionomers
- E. Enamel before or after orthodontic bracket placement
- F. Enamel after whitening (bleaching)
- G. Acrylic appliances
- H. Indirect composites

#### Warnings:

- Highly flammable.
- Avoid splashing into the eyes. If **BisCover LV** comes into contact with the eyes, flush with copious amounts of water and seek medical attention.
- Upon curing, **BisCover LV** may produce a brief exothermic reaction which is minimized by applying in a thin layer. Do not cure on soft tissue.
- The phosphoric acid in the etchant is a severe eye and skin irritant. Injury may result if the etchant is allowed to remain on the skin or mucosa for extended periods of time. If accidentally splashed into the eye, flush with copious amounts of water and seek medical attention immediately. In case of contact with other tissues, rinse immediately with plenty of water for several minutes.
- A rubber dam is recommended for all restorations and other indications where contamination may be possible.

#### 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:

- Keep UNI-ETCH®\* away from direct sunlight.
- **BisCover LV** is a light-curable material. Use **BisCover LV** immediately once it is dispensed in the mixing well. Prolonged exposure to air and light may lead to solvent evaporation and thickening of the material.
- To avoid evaporation of **BisCover LV**, keep container tightly closed.
- Avoid contact with the skin; unpolymerized (meth)acrylate resins may cause skin sensitization in susceptible persons. In case of contact, wash skin with soap and water.
- Allow **BisCover LV** to fully evaporate for 15 seconds prior to curing.
- Cure completely with a LED, PAC, or Halogen light for 30 seconds.
- The emitting tip of the dental curing light should be held as near and vertical to the resin surface as possible. If a large resin surface is to be light-cured, it is advisable to divide the area into several sections and light cure each section separately.
- Low curing light intensity or insufficient curing will leave an air-inhibited layer on the surface of **BisCover LV**.
- See individual component labels for specific expiration dates.
- Safety data sheet available on request.
- Safety data sheet available at [www.Bisco.com](http://www.Bisco.com).

## INSTRUCTIONS FOR USE

### **A. On Newly Placed Composites:**

1. Light cure and contour the composite.
2. Apply acid etchant, such as UNI-ETCH, to the cured composite and adjacent tooth structure for 15 seconds.
3. Rinse and dry.
4. Continue with Section "**Applying BisCover LV**".

### **B. On Old/Previously-Placed Composites or for Reapplication:**

1. Pumice the surface, or sandblast, or roughen with a fine diamond. Rinse and dry.
2. Apply acid etchant, such as UNI-ETCH, to the cured composite and adjacent tooth structure for 15 seconds.
3. Rinse and dry.
4. Continue with Section "**Applying BisCover LV**".

### **C. Provisionals (all types):**

**NOTE:** Can be used prior to or after cementation.

1. Contour the provisional restoration.
2. Rinse and dry. (Etching is not required.)
3. Continue with Section "**Applying BisCover LV**".

### **D. On a Light-Cured/Dual-Cured Resin-Modified Glass Ionomer:**

1. Place Resin-Modified Glass Ionomer per manufacturer's instructions.
2. Light cure for 3-5 seconds at 500mW/cm<sup>2</sup> and contour.
3. Continue with Section "**Applying BisCover LV**".

### **E. In Orthodontic Applications:**

#### **Prior to Bracket Placement:**

1. Clean the surface with a slurry of pumice/water.
2. Etch the entire area with phosphoric acid, such as UNI-ETCH, for 30 seconds (120 seconds for primary teeth).
3. Rinse with water (approx. 10-20 seconds) and dry thoroughly. The etched area will appear frosty white. If not, re-etch for an additional 20 seconds.
4. Continue with Section "**Applying BisCover LV**".
5. Apply bracket cement, according to manufacturer's instructions.

#### **If Brackets Have Already Been Placed:**

1. Follow same instructions as in section E, "Prior to Bracket Placement", excluding step 5.

### **F. Enamel [after Whitening (Bleaching)]:**

1. Clean the surface with a slurry of pumice/water.
2. Etch the entire area with 32% phosphoric acid, such as UNI-ETCH, for 30 seconds.
3. Rinse with water (approx. 10-20 seconds) and dry thoroughly. The etched area will appear frosty white. If not, re-etch for an additional 20 seconds.
4. Continue with Section "**Applying BisCover LV**".

### **G. Acrylic Appliances:**

1. Contour the appliance. Clean the appliance thoroughly.
2. Rinse and dry.
3. Continue with Section "**Applying BisCover LV**".

### **H. On Indirect Composites:**

**NOTE:** Can be used prior to or after cementation.

1. Pumice the surface, or sandblast, or roughen with a fine diamond. Rinse and dry.
2. Apply acid etchant, such as UNI-ETCH, to the cured composite and adjacent tooth structure for 15 seconds.
3. Rinse and dry.
4. Continue with Section "**Applying BisCover LV**".

### **Applying BisCover LV:**

1. Dispense **BisCover LV** into a mixing well. Dip the brush into the **BisCover LV**. Wipe excess from the brush onto the side of mixing well. The brush does not need to be saturated, just wet enough to apply one thin coat.
2. Apply one thin coat of **BisCover LV** in one direction with a smooth stroke. Do not agitate the brush during application. **It is very important that one allows 15 seconds dwelling time for evaporation of solvent after application. Do not air thin as this will disperse the material unevenly causing ripples on the surface.**
3. **BisCover LV** uses the following curing lights and curing times to initiate polymerization. Insufficient curing will leave an air-inhibited layer on the surface of **BisCover LV**.
  - a. **LED Lights:** Light cure for **30** seconds at close range (0-2mm).
  - b. **Halogen Lights:** Using a halogen curing unit, light cure for **30** seconds at close range (0-2mm).
  - c. **PAC (Plasma Arc) Lights:** Using a PAC light, light cure for **10** seconds at close range (0-2mm).
4. If a second coat is desired, repeat steps 1-3.

### **Troubleshooting:**

**OBSERVATION:** After curing, the treated surface has white spots.

1. Insufficient evaporation of the solvent has occurred due to too thick of a layer or entrapment of solvent.  
**SOLUTION:** Remove **BisCover LV** with rotary instruments and apply again, allowing sufficient time for evaporation of the solvent.

**OBSERVATION:** The surface is tacky after curing.

1. The light intensity may be less than the required amount. The lamp may be old and need replacement, or the internal filter may be scratched and dirty.  
**SOLUTION:** Use a radiometer to determine the actual output intensity, and/or increase the curing time.
2. The probe tip may be too far away from the surface. Light divergence reduces the intensity at the curing surface as the light spreads to cover a larger area.  
**SOLUTION:** Keep probe 1-2mm from surface, and/or increase the curing time.
3. Residue build-up on the tip of the probe may block light and reduce the intensity. A chipped or scratched probe tip will also contribute to reduced intensity.  
**SOLUTION:** Clean the tip of the light probe, and/or increase the curing time.
4. Substrate was contaminated.  
**SOLUTION:** Apply a second coat of **BisCover LV**.

**OBSERVATION:** The surface is not tacky but it can be scratched.

1. **BisCover LV** requires a minimum curing intensity regardless of the amount of time cured. Holding the light at a distance will reduce the intensity dramatically due to light divergence.  
**SOLUTION:** When curing a large surface area, it is better to cure smaller sections at close range as opposed to the whole area from a distance.

**OBSERVATION:** The surface is not cured uniformly.

1. The intensity of the curing light may not be uniformly distributed as an output, falling off in intensity towards the outer periphery. This is further exaggerated as the distance between the probe and surface are increased.  
**SOLUTION:** When curing a large surface area, it is better to cure smaller sections at close range as opposed to the whole area from a distance.

**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.

- \* BisCover is a trademark of BISCO, Inc.  
UNI-ETCH is a registered trademark of BISCO, Inc.

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