

*Bisco*

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# ***REFLEXIONS***<sup>TM</sup>

*Aesthetic Universal Composite System*

**Instructions for Use**



Bringing Science to  
the *Art* of Dentistry<sup>SM</sup>

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IN-175R1  
Rev. 10/09

# REFLEXIONS™\* Composites

## GENERAL INFORMATION

**REFLEXIONS** is a simplified universal aesthetic composite system consisting of dentin and enamel shades that together allow the practitioner to replicate the full spectrum of color using the dentin-enamel layering technique. The **REFLEXIONS** system consists of light-cured resin-based dental restorative materials that provide exceptional aesthetics for all classes of direct restorations. **REFLEXIONS** Composites are intended for use with total-etch adhesives such as ALL-BOND 2™, ALL-BOND 3™, ONE-STEP™ or ONE-STEP PLUS, and self-etch adhesives such as ALL-BOND SE™.

## INDICATIONS FOR USE

**REFLEXIONS** Composite System is indicated for the use of all classes of direct restorations in posterior and anterior teeth including:

- Class I, II, III, IV, V, VI restorations
- Diastema closures

## REFLEXIONS XLS DENTIN

**REFLEXIONS XLS DENTIN** (Extreme Low-Shrinking) shades are light-cured, low-shrinking nanohybrid composites. The nanohybrid formulation resembles true dentin and is the perfect biomimetic dentin replacement material. The opaque characteristic provides ideal replacement for lost dentin structure, and the low-shrink properties minimize post-operative sensitivity. **REFLEXIONS XLS DENTIN** is designed to blend naturally when used in the layering technique with **REFLEXIONS XP ENAMEL** shades.

## REFLEXIONS XP ENAMEL

**REFLEXIONS XP ENAMEL** (Extreme Polishability) shades are light-cured, fluorescing, highly reinforced nanofil composites. Due to its reinforced composition, **REFLEXIONS XP ENAMEL** can be used for all classes of direct restorations as the enamel layer. The nano-sized filler particles contribute to **REFLEXIONS XP ENAMEL**'s excellent polishability while the reinforcing filler allows for maximum strength and durability.

## INSTRUCTIONS FOR USE

1. Prior to isolating and preparing the tooth, select the appropriate **REFLEXIONS XLS DENTIN** and **XP ENAMEL** shades. Refer to the **REFLEXIONS** Shade Recommendation Chart below.

REFLEXIONS Shade Recommendation Chart																	
VITA®** Shade:	A1	A2	A3	A3.5	A4	B1	B2	B3	B4	C1	C2	C3	C4	D2	D3	D4	Bleach
REFLEXIONS XP ENAMEL:	CE	CE	NE	NE	NE	FE	CE	NE	NE	GE	GE	GE	GE	CE	NE	NE	FE
REFLEXIONS XLS DENTIN:	LD	MD	MD	DD	DD	LD	MD	MD	DD	LD	MD	DD	DD	LD	MD	DD	BD*

2. Isolate and prepare the tooth. Clean the entire preparation with a slurry of pumice and a disinfectant, such as CAVITY CLEANSER™ or a slurry of pumice and water.
3. When using a total-etch bonding technique, etch the preparation using an etchant, such as UNI-ETCH® w/BAC or ETCH-37™ w/BAC according to manufacturer's instructions. If using a self-etch adhesive system, skip this step and proceed to step 4.

### USING UNI-ETCH w/BAC

- Apply etchant with supplied needle tip. Allow etchant to remain in place for 15 seconds.
  - To completely remove all traces of etchant, rinse thoroughly (at least 5 seconds) and gently dry, leaving the surface moist for the wet bonding technique.
  - For best results, do not allow enamel or dentin to dry for an excessive period of time. Immediately re-wet enamel and dentin with wetting agent such as AQUA-PREP™ F prior to application of hydrophilic adhesive.
4. Apply an adhesive, such as ALL-BOND 2, ALL-BOND 3, ALL-BOND SE, ONE-STEP or ONE-STEP PLUS according to the manufacturer's instructions.
  5. **For cavity liners in Class I or Class II restorations:** Place a small increment of AELITEFLO™ LV into the cavity preparation to line the pulpal floor, axial walls and gingival floor. (**NOTE:** remove excess from margins when aesthetics are a concern) Light cure for 20 seconds @ 500mW/cm².
  6. Dispense desired amount of **REFLEXIONS XLS DENTIN** composite onto a light-protected mixing pad by turning the syringe handle clockwise. (**Tip:** To prevent excessive material from extruding, turn handle counterclockwise immediately after the desired amount is dispensed.) If using Unit-Dose Tips, inject **REFLEXIONS** composite directly into preparation. **NOTE:** To prevent composites from adhering (sticking) to your instrument, MODELING RESIN™ was developed to aid in the placement and shaping of your composites. By lightly wetting your instrument with MODELING RESIN, all of your direct composite restorations can be easily placed and manipulated (sculpted).
  7. Place 1-2mm increments of the **REFLEXIONS XLS DENTIN** composite into the cavity preparation to rebuild the missing natural dentin. Light cure each increment with a curing light, such as VIP™ junior, for 20 seconds at 500mW/cm². (**NOTE:** Light cure Dark Dentin shade for 40 seconds.) Keep the light tip as close to the composite as possible without contact.

8. Dispense desired amount of **REFLEXIONS XP ENAMEL** composite onto a light-protected mixing pad by turning the syringe handle clockwise. If using Unit-Dose Tips, inject **REFLEXIONS** composite directly into preparation.
9. Place 1-2mm increments of the **REFLEXIONS XP ENAMEL** composite into the cavity preparation to rebuild the missing natural enamel. Continue to build incrementally until the cavity preparation is filled to the cavosurface margin and the restoration takes on the desired shape. Light cure each increment for 20 seconds at 500mW/cm<sup>2</sup>. **NOTE:** Each surface of the final increment should be light-cured for 30 seconds at 500mW/cm<sup>2</sup>.
10. Check the occlusion and finish. To minimize or eliminate polishing, apply BisCover™\* LV. Surface sealants such as FORTIFY™\* or FORTIFY PLUS may also be used according to manufacturer's instructions. The use of any of these products will seal the margins and reduce composite wear and staining.

#### APPLYING BISCOVER LV

- a. Apply acid etchant, such as UNI-ETCH w/BAC, to the cured composite and adjacent tooth structure for 15 seconds.
- b. Rinse and dry.
- c. 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.
- d. 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.**  
**CAUTION:** 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.
- e. BisCover LV uses the following curing lights and curing times to initiate polymerization. It is important to properly cure BisCover LV since insufficient curing will leave an air-inhibited layer on the surface.
  - i. **LED Lights:** Using an LED curing light with a minimum output of 500mW/cm<sup>2</sup>, light cure for **30** seconds at close range (0-2mm).
  - ii. **Halogen Lights:** Using a halogen curing unit, such as VIP *junior*, with a minimum output of 500mW/cm<sup>2</sup>, light cure for **30** seconds at close range (0-2mm).  
**NOTE:** If the light intensity is lower than 500mW/cm<sup>2</sup> and/or curing occurs at a distance (>2mm), light cure for greater than **30** seconds.
  - iii. **PAC (Plasma Arc) Lights:** Using a PAC light, light cure for **10** seconds at close range (0-2mm).
- f. If a second coat is desired, repeat steps c-e.

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

**PRECAUTIONS:** Unpolymerized resins may cause skin sensitization in susceptible persons. Avoid contact with the skin. In case of contact, wash skin with soap and water.

**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.

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

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▲ BLEACH DENTIN is not a low-shrink composite.