

BISCO

QuantiumTM

Universal Composite

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.

GENERAL INFORMATION

Quantum is a light-cured, radiopaque, universal composite. Quantum can be applied as a single shade or layered with multiple shades, seamlessly blending with the natural tooth structure. Quantum combines superior levels of handling and placement ability with exceptional strength to create highly functional and aesthetically appealing composite restorations in both the anterior and posterior.

Indications for Use:

- Direct anterior and posterior restorations
- Core build-up material
- Splinting
- Indirect restorations including inlays, onlays, and veneers

Intended User: Licensed dentist.

Warnings:

- Product may contain items that are designed for one time use. Dispose of used or contaminated unit-dose tips. Do not clean, disinfect, or reuse.
- Use of commonly available hygienic protective covering to avoid any contamination of syringes during treatment is recommended. If syringe becomes contaminated, discard. Do not clean or disinfect.

Precautions:

- 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.
- If product accidentally comes in contact with 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 direct restorations and other indications where saliva contamination may be possible.
- Quantum unit doses can be warmed via a composite warmer, following composite warmer manufacturer's instructions. Warming may only be performed on unit-dose from 37°C to 68°C MAX for up to 1 hour. Do not rewarm.
- Do not warm Quantum syringes.
- When using dental adhesives, saliva contamination will seriously compromise dentin bonding.
- Protective eyewear should be worn by the patient and dental staff.
- Protective gloves should be worn by dental staff.
- Refer to individual component labels for specific expiration dates.
- Instructions for Use and Safety Data Sheet available at www.biscom.com and/or upon request.

INSTRUCTIONS FOR USE**Direct Restoration Instructions**

1. Select the desired shade of Quantum prior to isolating and preparing the tooth.
2. Clean the preparation with a slurry of pumice and water. Rinse and dry the preparation.
3. Isolate and prepare the tooth.
4. Place matrix, if needed, and apply an adhesive using the bonding technique of choice according to the manufacturer's instructions.
5. Dispense desired amount of Quantum 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 Quantum directly into preparation.
6. Using the selected shades, place 1-2 mm increments of composite into the cavity preparation. Light-cure each increment with a curing light unit for 20 seconds. Keep the light tip as close to the composite as possible without contact. Continue to build incrementally until the cavity preparation is filled to the cavosurface margin and the restoration takes on the desired shape. Each surface of the final increment should be light cured for 20 seconds.

Note: Warming Quantum unit-doses from 37°C to 68°C will increase flowability during placement.

7. Check the occlusion and proceed to finish and polish the restoration.

Indirect Restoration Instructions (inlays, onlays and veneers)

1. Prep the tooth.
2. Use a model of the prep (via traditional or digital impression) and if needed, place a separating agent to ensure space for the cement.
 - a. If replacing dentin, add increments of <2mm Quantum Body. Light cure each increment with a curing light unit for 20 seconds.
 - b. If replacing enamel, add increments of <2mm of Quantum Enamel. Final anatomy may be sculpted at this stage before the final cure. Light cure each increment with a curing light unit for 20 seconds.
3. Cement indirect restoration with cement of choice according to manufacturer's instructions.
4. Finish and polish restoration.

HYGIENE: Use of commonly available hygienic protective covering to avoid any contamination of syringes during treatment is recommended. If syringe becomes contaminated, discard. Do not clean or disinfect syringes. Do not clean, disinfect, or reuse unit-doses.

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).

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.

* Quantum is a trademark of BISCO Inc.