

### INSTRUCTIONS FOR USE

#### General Information

Benco Dental is light-cured restorative nano-hybrid composite resin for posterior and anterior restorations.

Nano-hybrid formula delivers superior smoothness for easy polishability and exceptional wear resistance for long-lasting restorations, exhibits low polymerization shrinkage, good depth of polymerization and high compressive strength. Benco Dental offers various shades, good esthetics and good radiopacity.

#### Composition

Contains Bis-GMA and UDMA resins with UDMA consisting over 4wt%. the inorganic filler loading is 70% by volume with a particle size between 16nm and 750nm.

#### Indications

- Class I-V restorations
- Directive anterior and posterior restorations
- Indirect restorations including Inlays, Onlays and Veneers
- Direct veneers
- Blocking out undercuts
- Repair of composite and ceramic veneers
- Core build-ups
- Splinting mobile teeth

#### Shades

A1, A2, A3

#### Precautionary Information

1. Check the expiration date and appearance condition of product and package.
2. Follow the application after being well acquainted with the Instructions for Use.

#### Application

##### PREPARATION

1. Prophylaxis: Teeth should be cleaned with pumice and water to remove surface stains.
2. Shade Selection: Before isolating the tooth, select the appropriate shade(s) of restorative material.
3. Isolation: Place a matrix and an interdental wedge, if necessary.

##### RESTORATIVE

1. Cavity Preparation: Prepare the cavity according to the requirements of the adhesive technique, i.e. protecting the tooth structure. Do not prepare sharp, internal edges and angles or additional undercuts in caries-free areas. The dimensions of the cavity are generally determined by the extent of the caries or the size of the old restoration. Caries-free cervical defects are not prepared, only cleaned with pumice or other suitable cleaning pastes with the help of rubber cups or rotary brushes. Subsequently, remove all residues in the cavity with water spray and dry with water- and oil-free air.

2. Pulp Protection: Apply a calcium hydroxide pulp protector, if needed. DO NOT USE EUGENOL-BASED MATERIALS to protect the pulp as these materials will inhibit curing.
3. Adhesive System: Follow the manufacturer's instructions, regarding etching, self-priming adhesive application and curing.
4. Dispensing the Composite: Follow the directions corresponding to the dispensing system chosen. Adhesive application and curing.
  - 4.1 Syringe: Dispense the necessary amount of restorative material from the syringe onto the mixing pad by turning the handle slowly in a clockwise manner. To prevent oozing of the restorative material when dispensing is completed, turn the handle counterclockwise half a turn to stop paste flow. Immediately replace syringe cap. If not used immediately, the dispensed material should be protected from light.
  - 4.2 Single-Dose Capsule: Insert capsule into a universal restorative dispenser. Refer to separate restorative dispenser instructions for full instructions and precautions. Extrude restorative directly into cavity.
5. Placement: For optimum results, apply in layers not exceeding 4 mm and adapt with a suitable instrument. Use a special contact point instrument for large cavities where the contacts are difficult to create. Sufficient exposure to the curing light prevents incomplete polymerization. For the recommendations regarding exposure time and light intensity see following table:

Minimum intensity 600 mW/cm <sup>2</sup> light		
Shade	Incremental Depth	Cure Time
A1, A2, A3	2.0 mm	20 sec.

Minimum intensity 1200 mW/cm <sup>2</sup> light		
Shade	Incremental Depth	Cure Time
A1, A2, A3	2.0 mm	10 sec.

6. Finishing: Remove excess material with suitable finishers or fine diamonds after polymerization. Remove proximal excess with diamond or tungsten carbide finishers, finishing strips, or flexible finishing discs.
7. Adjust Occlusion: Check the Occlusion and apply appropriate grinding corrections to prevent premature contacts or undesired articulation paths on the surface of the restorations.
8. Polishing: Use silicone polishers as well as polishing discs and polishing strips to polish the restorations to durable high gloss.

**Caution**

- 1. Designed for sale and use by licensed dental care professionals only. It is not designed for sale nor is it suitable for use by non-dental care professionals
- 2. Contains methacrylic monomer. Some patients can cause allergic reaction to monomer.
- 3. Do not use on patients allergic to or hypersensitive to methacrylic and related monomers.
- 4. If an allergic reaction or oversensitivity occurs, discontinue its use immediately.
- 5. Avoid contact of with eyes, mucosal membrane, skin and clothing.
- 6. If it comes in contact with the eyes, thoroughly flush eyes with water and immediately contact an ophthalmologist.
- 7. Use a rubber dam to protect the throat.
- 8. DO NOT use after the indicated date of expiration on the syringe.
- 9. If refrigerated storage is used, allow product to reach room temperature prior to use.

**Storage & Use**

- 1. Do not expose restorative materials to elevated temperatures, or to intense light.
- 2. Store at a temperature between 2 - 27°C
- 3. Ambient temperatures routinely higher than 27°C/80°F may reduce shelf life.
- 4. Shelf life at room temperature is 36 months.
- 5. See outer package for expiration date.
- 6. Do not store materials in proximity to products containing Eugenol.

**Warranty**

Benco Dental warrants this product will be free from defects in material and manufacture. Benco Dental, MAKES NO OTHER WARRANTIES INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining the suitability of the product for user’s application. If this product is defective within the warranty period, your exclusive remedy and Benco Dental’s sole obligation shall be repair or replacement of the product.

**Limitation of Liability**








Except where prohibited by law, Benco Dental will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

**Customer Information**

No person is authorized to provide any information which deviates from the information provided in this instruction sheet. Caution: U.S. Federal Law restricts this device to sale or use on the order of a dental professional.

**Disposal**

See the Material Safety Data Sheet (or through your local subsidiary) for disposal information.

	Temperature limitation
	Caution, consult accompanying documents
	Keep away from sunlight
	Use by
	Batch code
	Date of Manufacture
	Manufacturer

Distributed by

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