

BencoDental™ FLOWABLE NANO-HYBRID COMPOSITE

INSTRUCTIONS FOR USE

General Information

Benco Dental is the light-cured flowable composite resins for direct restoratives. Due to the use of the hybrid nano filler, the surface is smooth, which provides excellent aesthetics and has high strength similar to the enamel. It has very low shrinkage, good radiopacity, and good mechanical strength.

Composition

Organic Matrix: UDMA, TEGDMA

Inorganic Filler: micro/nano Silica

Additives: Initiator, Catalyst, Stabilizer, Others

Indications

- Restoration in I-V
- Deep class I applicable
- Base/Liner under direct restorations
- Undercut blackout
- Usable in Orthodontics
- Repair of composite
- Pit&Fissure sealant

Shades

A1, A2, A3

Precautionary Information

1. Check the expiry date and appearance condition of product and package.
2. Observe the instruction for use after being well acquainted with the instruction 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 a rubber dam, 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. 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: Remove the cap. Insert and twist the tip securely onto the syringe. Holding the tip away from the patient and any dental staff and express a small amount of restorative to assure that the delivery system is not plugged. After extruding the paste, remove and discard the Tip, wipe the nozzle with gauze and replace the cap immediately.
5. Placement: For optimum results, apply in layers not exceeding 4 mm. Sufficient exposure to the curing light prevents incomplete polymerization. For recommended exposure time and light intensity, see following table:

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

Minimum intensity 1200 mW/cm ² 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 for 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 for patients allergic to or hypersensitive to methacrylic monomers.
4. If an allergic reaction or oversensitivity occurs, discontinue use immediately.
5. Avoid contact with eyes, mucosal membrane, skin and clothing.
6. If product comes in contact with the eyes, thoroughly flush eyes with water and immediately contact an ophthalmologist.

Caution (continued)

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 Benco Dental 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

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