



VERICOM CO., LTD.

Dental Materials

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Description

DenFil™ N is a visible-light activated, radiopaque, nano-hybrid composite material. It is designed for use in both anterior and posterior restorations.

Composition

- Barium aluminosilicate (Average Particle Size: ≤ 0.7µm)
- Fumed silica (Average Particle Size: 12nm)
- Bis-GMA - UDMA
- Bis-EMA - TEGDMA
- Additives
- The percentage by weight of total inorganic filler is ca. 76%

Indications

DenFil™ N is indicated for class I, II, V of posterior teeth, class III, IV, V of anterior teeth and cervical cavities(wedge shaped defect) involving root surfaces.

Recommended Procedure

1. Shade selection

Clean teeth with pumice and water to remove surface stains or extraneous plaque. Teeth are not monochromatic. Consider shade and restoration depth. It is desirable to choose the shade after mocking up. Alternatively, Vita¹ Lumin® Vacuum shade guide may be used. Using of rubber dam is recommended for isolation.

2. Cavity preparation

- Anterior restoration
Using the conventional acid etching, prepare cavity for all Class III, Class IV, and Class V restoration.
- Posterior restoration
Prepare the cavity. No residual amalgam or other base material should be left on the internal surfaces of preparation that would interfere with light transmission and the hardening of the restorative material.

3. Pulp Protection

In deep cavities cover the dentin close to the pulp with a minimum amount of calcium hydroxide liner leaving the rest of cavity surface free for bonding. Glass ionomer or other eugenol-free base materials may be used, if wished.

4. Placement of matrix

Use a matrix system, preferably a transparent one, with proper wedging for proximal contacts. Pre-wedging is advocated to achieve slight separation and facilitate optimal proximal contact.

5. Enamel and dentin treatment

Follow the manufacturer's instructions regarding etching, priming, adhesive application and curing. It is recommended to use DenFil™ Etchant-37 and BC Plus™ or U-Bond™.

6. Dispensing the composite

- Syringe
Dispense the necessary amount of restorative material from the syringe onto the mixing pad by turning the handle slowly in a clockwise manner.

Immediately replace syringe cap. If not used immediately, the dispensed material should be protected from light. Place restorative material into the cavity using instrument contained.

- Single dose capsule

Insert capsule into dispenser and rotate to gain the proper angle of entrance into cavity. Extrude restorative directly into cavity, using a slow and steady pressure.

7. Placement

Place and light cure restorative in increments in 2,5mm levels or less. For permitting extension of composite beyond cavity margins, overfill the cavity slightly. Avoid intense light in the working field.

8. Curing

Expose each area of restoration surface to a visible light source (400mW/cm²). Hold the light guide tip as close to the restorative materials as possible during light exposure. The recommended exposure time and maximum increment thickness for each shade is shown below.

Shade	Thickness	Exposure time
A1, A2, A3, A3.5, B1, B2, C1	2,0mm	20sec
A20, A30, BL	2,0mm	30sec

9. Finishing

Immediately after curing contour restoration surfaces with fine finishing bur or stone. Carefully adjust occlusion by removing material with a fine polishing bur or stone.

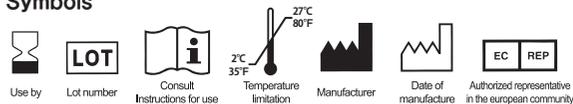
Storage

1. Do not store at elevated temperature or intense light.
2. Do not store material in proximity to eugenol containing product.

Precautions

1. For dental use only.
2. It should be used by a dentist and dental professional. Observe the procedure and the precautions.
3. Keep it away from a reach of non-dental user including children, senior citizens and others.
4. If skin sensitization or allergy to acrylate occurs, stop using.
5. Exposure to uncured resin should be avoided. If contacts skin, wash immediately with soap and water.
6. If accidental contact with eyes or prolonged contact with oral tissues occurs, flush immediately with a large amount of water.
7. If refrigerated, the material must be allowed to reach room temperature before use.
8. Use of protective gloves and a no-touch technique is recommended.
9. Protective device for the respiration tract is highly recommended before using.
10. In case of non-polymerization, check the light intensity of the light curing unit and then contact the nearest dealer(s) or manufacturer directly regarding the same quality matters.
11. Do not use after expiry date.

Symbols



Warranty

VERICOM CO., LTD. will replace product that is proven to be defective. VERICOM CO., LTD. does not accept liability for any damage or loss, direct or consequential, stemming from the use of or inability to use product 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.



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1.Vita is a registered trademark of Vita zahnfabrik, Bad Sackingen, Germany