

NANOFIL[®]

Dental Filling Resin Instructions for Use Product Description



NANOFIL[®] dental filling resin restorative material is a visible-light activated, radiopaque, restorative composite. It is designed for use in both anterior and posterior restorations. Restorative material contains Bis-GMA and TEGDMA resins and barium glass. The restorative is available in a variety of shades. It is packaged in traditional syringes and cartridge capsules.

Specification

4.5g/Syringe, 2g/Syringe, Cartridge (0.3g)

Shades

A1、 A2、 A3、 A3.5、 A4、 B1、 B2、 B3、 B4、 C1、 C2、 C3、 C4、 D2、 D3、 D4、 M1、 M2、 M3

Composition

NANOFIL[®] dental filling resin contains Bis-GMA and TEGDMA resins and barium glass.

Indications

Anterior and posterior direct and indirect restoration

Contraindications

Hypersensitive to acrylic monomer

Side Effects

This product or one of its components may in particular cases cause hypersensitive reactions.

Interactions

Phenolics and other substances (e.g. zinc oxide eugenol) may inhibit the curing process.

Warnings/Precautions

NANOFIL[®] dental filling resin may irritate eyes. Avoid contact with gingiva, skin, eyes or neighboring teeth. In case of contact with oral mucosa, rinse thoroughly with plenty of water. If swallowed, thoroughly rinse mouth with water and then drink plenty of water. Consult a physician. In case of contact with skin, thoroughly rinse with soap and water. In the event of contact with eyes, rinse thoroughly with water and seek medical advice. Wear suitable protective gloves. Avoid skin contact. Wear protective clothing. Wear safety glasses/face protection.

•Only to be used by dentists and for its intended use.

•Store out of reach of children.

•Only used before the expired date.

Instruction for use

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. Shade selection accuracy according to VITAPAN criteria.

3. Isolation

A rubber dam is the preferred method of isolation. Cotton rolls plus an evacuator can also be used.

Direct Restoration

1. Cavity Preparation

1.1 Anterior Restorations Use Conventional Cavity

Preparations for all class III, IV and class V restorations.

1.2 Posterior Restorations

Prepare the cavity. Line and point angles should be rounded. No residual amalgam or other base material should be left in the internal form of the preparation that would interfere with light transmission and therefore, the hardening of the restorative material.

2. Pulp Protection

If a pulp exposure has occurred and if the situation warrants a direct pulp capping procedure, use a minimum amount of calcium hydroxide on the exposure.

3. Placement of Matrix

3.1 Anterior Restorations

Mylar strips and crown forms may be used to minimize the amount of material used.

3.2 Posterior Restorations

To establish the better contour, dead-soft metal, Mylar, or other forming device are advised.

4. Adhesive System

Follow the manufacturer's instructions, applying the adhesive.

5. Dispensing the Composite

Follow the directions corresponding to the dispensing system chosen.

Dispense the necessary amount of restorative material from the syringe onto the mix pad by turning the handle slowly in a clockwise manner. Then fill the material into the cavity.

6. Curing

NANOFIL® dental filling resin is intended to be cured by exposure to a halogen or LED light with a minimum intensity of 400 mW/cm². Cure each increment by exposing its entire surface to a high intensity visible light source, hold the light as close to the restorative as possible during light exposure. The recommended exposure time and maximum increment thickness for each shade is shown below.

Shades	Thickness	Exposure Time
A1, A2, A3, A3.5, B1, B2, B3, C1, C2, D2, D3, M1, M2, M3	3.0mm	40 sec
A4, B4, C3,	2.0mm	40 sec

7. Polishing

Polish with finishing and polishing system.

Indirect Restoration

1. Dental Operatory Procedure

1.1 Shade Selection

Choose the appropriate shade(s) NANOFIL® Dental filling resin prior to isolation.

1.2 Preparation

Prepare the tooth.

1.3 Impression

After preparation is complete, make an impression of the prepared tooth by following the manufacturer's instructions of the impression material.

2. Laboratory Procedure

2.1 Impression Registration

Pour the impression of the preparation with die stone. Separate the cast from the impression after 45 to 60 minutes. Make a cast die according to a typical crown and bridge procedure.

Section out the preparation with a laboratory saw and trim away excess and dispense the NANOFIL® dental filling resin into the preparation then light cure the resin composite, after curing, trim the prosthesis and demould the prosthesis.

3. Dental Operatory Procedure

3.1 Roughen the interior surfaces of the indirect restoration.

3.2 Clean the prosthesis in a soap solution in an ultrasonic bath and rinse thoroughly.

3.3 Cement the prosthesis using a resin cement system.

Caution

In case of deep cavities, we recommend covering the dentine near the pulp with a calcium hydroxide preparation and a base (e.g. glass ionomer cement) prior to etching.

Do not store materials in proximity to eugenol containing products.

Disinfect the products using an intermediate level disinfection process

Storage conditions

Store at temperatures of 2~25°C (36~77°F).

Expiration Date and Batch Number

See note on syringe/packaging.

Warranty

3 years

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