

NANOFIL Nova®

FLOWABLE LIGHT-CURED COMPOSITE

Dental Filling Resin

Instructions for Use



General Information

NANOFIL Nova® Flowable Light-cured Composite is a light-cured, micro-hybridized, high content filler, low-elasticity flowable composite. It is restoration material for Class III, V and small Class IV cavities. They can also be used as small cavity liner (Class I and Class II filling), the establishment of small post cores and the restoration of Class I or Class II cavities in deciduous teeth. The average diameter of the filler is 0.7 microns, making NANOFIL Nova® Light-cured Flowable Composite easy to polish, and due to the barium glass filling, it is visible on radiographic imaging equivalent to 2mm aluminum thickness

NANOFIL Nova® Flowable Light-cured Composite is flowable which prevents falling off in class V restoration and it can pass through relatively difficult-to-access areas. Using the injection delivery tip provided with this product, the material can be easily injected directly into the cavity preparation and can generally be shaped with the delivery tip.

The greater the elastic modulus, the stiffer the material and the greater the likelihood of marginal failure when applying as a sealant. Dentin has an elastic modulus of approximately 18 GPa, while NANOFIL Nova® Light-cured Flowable Composite has an elastic modulus of approximately 3-3.5 GPa.

It is more elastic than conventional flowable composite (4—8GPa) and composite(10-20GPa). These properties compensate for shrinkage stresses and reduce the frequency of marginal microleakage and chipping. This is very important in restoring teeth with multiple fissure lesions, where very rigid flowable composite may eventually fail.

Indications for Use

The principal uses of Nova®Flowable Dental Filling Resin are:

- Class V
- Class III
- Buccal pit restorations
- Small non-stress-bearing Class IV
- Porcelain veneer bonding
- Adult preventive resin
- Splinting- Cementing tooth to tooth
- Small core build-up
- Marginal defect repair
- Deciduous Class I or Class II

The secondary uses of Nova®Flowable Composite LC are:

Cavity liner (Class I or Class II)
Pit and fissure sealant

Model and Packing

Model: A1, A2, A2(P), A2(LV), A3, A3.5, B1, WO

Packing: 1.1g/Syringe , 2.2g/Syringe

Accessories: 19G disposable syringe tip 10 pieces of each.

Intended User Dental Professionals

Precautions

- Uncured resin may cause skin irritation in sensitive people. Avoid contact with skin. In case of skin contact, wash thoroughly with soap and water.
- When using dental adhesives, saliva contamination will seriously compromise dentin bonding.

- Protective eyewear should be worn by the patient and dental staff
- Refer to individual component labels for specific expiration dates.
- Instructions for Use available upon request.
- Instructions for Use available at www.atmbio.com.

Helpful Hints

- Although the restoration may appear smooth and polished immediately after being placed and light-cured, an oxygen inhibited layer is present and must be removed (finishing with discs and/or polishing paste, etc.) to prevent staining.

INSTRUCTIONS FOR USE

1. Prior to isolation, select appropriate shade of NANOFIL Nova® Flowable Light - cured Composite .
2. Remove the cap from the selected syringe and attach a needle tip securely.
3. Be sure the cavity is adequately cleaned in accordance with the Instructions for Use of the bonding system to be used.
4. Apply an adhesive according to the manufacturer's instructions.
5. Using the previously selected shade, place 1-2 mm increments of composite into the cavity preparation. For Opaque White, layer in 1mm increments. To prevent excess material from squeezing the syringe, withdraw the plunger immediately after the desired amount is reached.
6. Light cure each increment for 20s @500mW/cm² according to the shade:
 - Shade A2P: 30 seconds
 - All other shades: 20 seconds
 Continue to build incrementally until cavity preparation is filled to the cavosurface margin.
7. Proceed with finishing and polishing with a polishing strip or polishing disc. Once preparation is complete and polished, seal with a surface sealer per the manufacturer's instructions. Alternatively, if using a liquid polish, apply according to the manufacturer's instructions. This will improve the integrity of the edge and reduce wear and staining.

HYGIENE: Re-cap syringes with the luer lock cap. Use of commonly available hygienic protective covering to avoid any contamination of syringes during treatment is recommended.

DISPOSAL: Refer to community provisions relating to waste. In their absence, refer to national or regional provisions relating to waste.

WARRANTY: AT&M Biomaterials Co., Ltd. recognizes its responsibility to replace products if proven to be defective. AT&M Biomaterials Co., Ltd 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.

The recommended condition of storage: Store in a cool and dry place, Store at room temperature (17°C - 25°C), avoid direct exposure to sunlight.

Production date: see the product package.

Expiration Date: see the product package.

Labeling instructions

Instructions for use	Warning	Product model	Manufacturing lot	Production date	Expiry date	Avoid direct sunlight



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