

NovaCal is a bioactive light-cure resin reinforced pulp capping material with MTA-fillers, which is designed to perform as a barrier and to protect the pulp. Thanks to its thixotropic behavior and with the included tips, NovaCal can be applied very precisely, even in deep cavity preparations. Light curing of NovaCal ensures a controlled setting. After light cure, filling can be placed immediately.

Indications

1. Direct pulp capping for any pulpal exposures, including:

- carious pulp exposure
- mechanical pulp exposure
- pulp exposures due to trauma

2. Indirect pulp capping agent in deep preparations:

- under amalgam restorations
- under Class I and Class II composite restorations
- under cements
- as an alternative to calcium hydroxide

Contraindications

In singular cases, the material may cause a sensitizing reaction in patients with a hypersensitivity to any of the ingredients. In these cases, the material should not be used.

Precautions

- Because of its high pH value, NovaCal must not be used in a direct intraoral environment. Do not place on enamel, cavity margins or leave exposed to the oral environment.
- The success of pulp capping procedures may be affected by preparation contamination. Use of a rubber dam or adequate isolation is highly recommended.
- Pulpal hemorrhage must be controlled prior to the application of NovaCal. If hemorrhage cannot be controlled, consideration should be given for the initiation of endodontic therapy before direct pulp capping procedures.

Application

Screw off the cap of the syringe and insert a tip. **Store the screw cap!**

1. Direct pulp capping for any pulpal exposures

1.1. Cavity Preparation

When opening the pulp, first stop any bleeding that may occur. Then remove excess moisture with a sterile cotton pellet. Leave the surface visibly moist.

1.2. Application

Apply NovaCal punctiform and small-area (with a layer thickness ≤ 1 mm) to the opened pulp. Cover all exposed areas of the opened pulp with NovaCal and extend optional up to 1 mm into dentine.

Due to the high opacity of NovaCal, light cure **40 seconds** by using a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm².

Apply a suitable light cure adhesive according to the manufacturer instructions onto the cured NovaCal layer and proceed with the restoration.

Note:

With a total-etch adhesive take care to etch only the exposed cavity areas. Then apply the bonding to all cavity areas.

2. Indirect pulp capping agent in deep preparations

2.1. Cavity Preparation

Remove all infected carious tooth structures. Leave the preparation visibly moist.

2.2. Application

Apply NovaCal to a small-area (with a layer thickness ≤ 1 mm) directly onto the area close to the pulp.

Due to the high opacity of NovaCal, light cure **40 seconds** by using a polymerization unit (wavelength range 400-500 nm) with a light intensity of at least 1000mW/cm².

Apply a suitable light cure adhesive according to the manufacturer instructions onto the cured NovaCal layer and proceed with the restoration.

Note:

With a total-etch adhesive take care to etch only the exposed cavity areas. Then apply the bonding to all cavity areas.

After use of the syringe replace the disposable tip with the screw cap.

Tips are for single use only.

Additional Notes:

- NovaCal contains polymerisable methacrylate monomers. Unpolymerized materials may have an irritating effect and may lead to a sensitizing reaction against methacrylates.
- Do not use with patients with allergic reactions against acrylates.
- Avoid contact with skin, mucous membrane and eyes.
- In case of contact with eyes, rinse with copious amounts of water and consult a physician immediately. In case of skin contact wash immediately with water.
- Do not use in combination with substances containing eugenol because eugenol inhibits the polymerization of the material. Neither store the material in proximity of eugenol containing products, nor let the material come into contact with materials containing eugenol.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.

Hygiene:

Use of commonly available hygienic protective covering to avoid any contamination of syringes during treatment is recommended. If syringes becomes contaminated, discard. Do not clean or disinfect.

Storage

Store at 2 - 8 °C (36 - 46 °F) protected from light and moisture. Close syringe immediately after use. Do not use after expiry date.

Warranty

Endo/Tech warrants this product will be free from defects in material and manufacture. Endo/Tech 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 exclusively remedy and Endo/Tech's sole obligation shall be repair or replacement of the Endo/Tech product.

Limitation of Liability

Except where prohibited by law, Endo/Tech 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.

Keep away from children!

For dental use only!