

# BRILLIANT NG

## Instructions for use

EN

Please read the instructions for use carefully before using the product.

### PRODUCT DESCRIPTION

BRILLIANT NG is a highly filled, radio-opaque, light-curing dental composite for permanent restoration. The clinical benefit of the dental composite is (re-)construction of tooth morphology or aesthetics.

### INTENDED USE

- BRILLIANT NG is intended for
- direct filling therapy of all classes
  - shape and shade corrections to improve aesthetics
  - repairs of ceramic and composite restorations
  - adhesive luting, if light penetration is possible

### COMPOSITION

Component*	wt %
Methacrylate derivatives	20-35
Barium aluminium boron silicate glass	60-75
Amorphous silica	1-10

\* Components present in very low concentrations (<1.0%) are not listed

### INDICATIONS

Permanent restoration of hard structures in the mouth i.a. due to:

- Caries
- Endodontic treatment
- Cosmetic treatment
- Tooth defects to be restored

### CONTRAINDICATIONS

Contraindicated in the case of hypersensitivity to any of the ingredients.

### SAFETY INSTRUCTIONS

#### Safety

- Keep out of the reach of children!
- Do not use the product beyond its expiry date.
- BRILLIANT NG is light sensitive and should not be left too long under intensive light before curing, especially surgical lighting or sun light. If possible, protect exposed material with a blue light blocking filter.
- Close syringes after use.
- Always wear gloves.
- For repairs, the treated surface must be roughened first.
- In case of direct contact with the oral mucosa, rinsing with tap water is sufficient. In the case of contact with the eyes, rinse thoroughly with water (10 min) and consult an ophthalmologist showing these instructions for use.
- Contains nano materials (bonded particles)

#### Residual risks

Users should be aware that any dental intervention in the oral cavity involves certain risks. Some of these risks are:

- Chipping / fracture / decementation
- Postoperative sensitivity / irritation of gingiva / secondary caries / endodontic complications
- Discoloration / wear / loss of gloss

### SIDE EFFECTS / INTERACTIONS

No systemic side effects are known. Contact allergies with products of similar composition have been reported in isolated cases.

Agents containing eugenol and / or oil of cloves may affect the polymerization of BRILLIANT NG. The use of zinc-oxide-eugenol cements in combination with BRILLIANT NG should therefore be avoided. Discolorations may occur when using cationic mouth rinses as well as plaque indicators or chlorhexidine.

### USER- / PATIENT GROUP

The product shall be used by qualified dental professionals only. Suitable for all patient groups.

Note: This product has not been specifically tested in vulnerable patient groups such as children or pregnant or lactating women.

### PREPARATION

Cleansing the tooth

Cleanse tooth to be treated and the adjacent teeth using a brush and prophylaxis paste which does not contain fluoride.

### Selection of shade

Selection of shade should be made before isolation. The shade is ideally determined in daylight using the BRILLIANT NG Shade Guide or the VITA Shade Guide. Shades reach their final tone 24 hours after curing.

### Isolation of the cavity (rubber dam)

Adequate isolation is absolutely necessary for achieving optimum results. The use of a dental dam (e.g. from COLTENE) is recommended.

### Preparation of the cavity

When preparing the cavity, every effort possible should be made to use a technique that preserves tooth structure (principle of the Adhesive Restoration Technique). Bevelled enamel margins are recommended to increase the area of adhesion between tooth and filling material and thereby optimize the marginal seal.

### Matrix and interdental wedges

When working approximately, apply a thin matrix band. Fix the matrix proximally using interdental wedges.

### Pulp protection

Apply appropriate pulp protection in regions close to the pulp. Procedure according to manufacturer's instructions for use.

### Adhesive system

Apply adhesive system (e.g. from COLTENE) according to the corresponding instructions for use.

### PROPER USE

#### a) Application of BRILLIANT NG for direct restorations

Dispense material out of the syringe and apply into the cavity by using the increment technique.

#### b) Application of BRILLIANT NG for indirect restorations

Conditioning the inner surfaces/contact surfaces of the restoration  
Always condition the contact surfaces of the restoration according to the manufacturer's instructions for use.

#### Application of BRILLIANT NG

Dispense material out of the syringe and apply into the cavity by using the increment technique. Position restoration in place using gentle pressure.

#### Removal of excess material

Remove coarse excess material (e.g. brush or spatula). Afterwards, hold restoration with pressure in position and remove additional excess material with a spatula or a suitable instrument.

### Polymerization

Cure BRILLIANT NG intraorally with the blue light of any light curing unit (450 - 490 nm).

#### Maximum layer thickness: 2 mm

BRILLIANT NG must be cured layer by layer. The inhibition layer may not be removed for bonding. Insufficient exposure bears the risk of incomplete polymerization. Overexposure of the material is not possible, however for safety concerns arising from the lamp, the instructions for use of the curing light must be respected.

#### Recommended exposure time per layer for direct restorations:

Cure for 20 s with at least 800 mW/cm<sup>2</sup> or for 10 s with at least 1600 mW/cm<sup>2</sup>

#### Recommended exposure time per layer for luting indirect restorations:

Cure each side for 40 s with at least 800 mW/cm<sup>2</sup>

### Finishing

Use appropriate rotary instruments and polishers (e.g. from COLTENE) for finishing.

### REPROCESSING, CLEANING, DISINFECTION AND MAINTENANCE

The use of a disposable sleeve is recommended. In case of suspected or identifiable contamination, dispose of the syringe as described below. Disinfection in a washer-disinfector or steam sterilization in an autoclave is not possible.

### SHELF LIFE / STORAGE

Expiry date and  number: see primary packaging

Storage temperature: 4 - 23°C / 39 - 73°F

Shelf life after first opening: expiry according to the expiry date

Protect against exposure to heat and sun. Avoid extreme temperature fluctuations. Close syringes immediately after use.

### DISPOSAL

Dispose of cured or uncured waste according to applicable legislation. Special country-specific regulations may apply.

Dispose only of completely emptied packages together with household waste in compliance with official regulations.

### TECHNICAL DATA

Complies with ISO 4049 Type 1, Class 2, Group 1

Range of dimensions of inorganic filler particles: 0.01 - 2.5 µm

Inorganic filler content by volume: 65%

Inorganic filler content by weight: 80%

Radiopacity: 2.7 mm Al\*

\*Radiopacity of 1 mm aluminum (Al) is equivalent to that of dentin, 2 mm (Al) is equivalent to enamel.

### REPORTING OBLIGATION

All serious incidents occurring in conjunction with this product must be reported immediately to the manufacturer as well as to the competent authority.

In the unlikely event of inhalation, ingestion, eye contact, or similar incidents seek immediate medical attention from an appropriate medical specialist to mitigate potential harm.

### SAFETY DATA SHEET (SDS) / SUMMARY OF SAFETY AND CLINICAL PERFORMANCE (SSCP)

[www.coltene.com](http://www.coltene.com)



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### Glossary



Consult instructions for use



Marking of Conformity Europe



Conformity mark Ukraine



Restricted device for professional use only



Medical Device



Legal Manufacturer



European Authorized Representative



Importer



Reference Number



Manufacturing Date



Expiry Date



Batch Code



Unique Device Identifier



Single use only



Keep away from sun light



Temperature limitation

### COLTENE International Dental Group

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Bahnhofstrasse 2  
CH-9435 Heerbrugg

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