

BRILLIANT™ NG

Instructions for use

EN

Definition

BRILLIANT NG is a syringeable, sculptable, radiopaque, highly filled nano hybrid composite for the restoration of all teeth. The optimally adjusted shade system of BRILLIANT NG provides two Vita shades in one syringe.

BRILLIANT NG is cured in a tooth cavity or on a model with all common halogen- or LED lights (e.g. COLTENE COLTOLUX LED).

Composition

Methacrylates
Dental glass
Amorphous silica

Technical Data

Average filler particle size:	0.6 µm
Range of particle size:	0.01 – 2.5 µm
Filler content by volume:	65%
Filler content by weight:	80%

Indications

BRILLIANT NG is indicated for:

- direct filling of class I, II, III, IV, and V cavities (details see below)
- repair of composite / ceramic veneers
- blocking out of undercuts
- adhesive cementation of ceramic and composite restorations

BRILLIANT NG Dentin is specifically indicated for:

- direct filling of opaque teeth
- direct class V fillings

BRILLIANT NG Enamel is specifically indicated for:

- direct filling of all teeth
- more translucent material with the layering technique

BRILLIANT NG Bleach is specifically indicated for:

- restoration of whitened teeth
- restoration of deciduous teeth
- characterization of chalk spots
- masking of discolored teeth

BRILLIANT NG Transparent is specifically indicated for:

- translucent surface layers in all classes
- reconstruction of incisal edges
- shape and color corrections to improve esthetics
- more translucent material with the layering technique

Contra-indications

If the site cannot be isolated after enamel etching, during application, and curing of BRILLIANT NG. If allergies exist to the components of BRILLIANT NG. If oral hygiene is poor.

Side effects

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

Interactions with other agents

Agents which contain 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, plaque indicators or chlorhexidine.

Application

Cleansing the tooth

The tooth to be treated and the adjacent teeth are cleansed using a brush and prophylaxis-paste which does not contain fluoride.

Selection of shade

Select shades before isolation. Ideally, the shade is determined in broad daylight using the BRILLIANT NG Shade Guide. Shades are identical to those of the shade guide only 24 hours after curing.

Isolation of the cavity (rubber dam)

Adequate isolation is absolutely necessary for achieving optimum results. The use of HYGENIC/ROEKO Dental Dam is recommended.

Preparation of the cavity

When preparing the cavity, every effort should be made to use a technique that is gentle to the tooth substance (principle of Adhesive Restoration Technique). Prepare the enamel and dentine using 80 µm preparation diamonds and finish using 25 µm finishing diamonds. Bevelled enamel margins are recommended to increase the area of adhesion between tooth and filling material, thereby optimizing marginal seal.

Pulp Protection

Covering the areas close to the pulp with hard-setting calcium hydroxide cements using the spot technique will provide protection of the pulp against bacterial infiltration.

Bonding system

Use ONE COAT BOND SL according to the corresponding instructions for use.

Matrix and interdental wedges

Apply a thin matrix band for class II, III and IV restorations. Fix the matrix proximally using interdental wedges.

Application

Dose BRILLIANT NG directly onto the mixing pad, take up in small increments with COLTENE Composite Instruments or any other application instrument, and apply to the cavity.

Working time

BRILLIANT NG is photosensitive, and should not be exposed to light too long, in particular to the operating light or sunlight. If possible, protect exposed BRILLIANT NG material by means of light opaque covering (not blue).

Polymerization

BRILLIANT NG can be cured using all common halogen- or LED lights (e.g. COLTOLUX LED).

Recommended exposure times:

Layer Thickness: 2 mm

	<800 mW/cm ²	>800 mW/cm ²
BRILLIANT NG Dentin A1 / B1	30 s	20 s
BRILLIANT NG Dentin A2 / B2	30 s	20 s
BRILLIANT NG Dentin A3 / D3	30 s	20 s
BRILLIANT NG Dentin A3.5 / B3	40 s	20 s
BRILLIANT NG Dentin C2 / C3	40 s	20 s
BRILLIANT NG Dentin A4 / C4	40 s	20 s
BRILLIANT NG Dentin Bleach	30 s	20 s
BRILLIANT NG Enamel A1 / B1	30 s	20 s
BRILLIANT NG Enamel A2 / B2	30 s	20 s
BRILLIANT NG Enamel A3 / D3	30 s	20 s
BRILLIANT NG Enamel A3.5 / B3	40 s	20 s
BRILLIANT NG Enamel C2 / C3	40 s	20 s
BRILLIANT NG Enamel A4 / C4	40 s	20 s
BRILLIANT NG Enamel Bleach	30 s	20 s
BRILLIANT NG Transparent	20 s	20 s

BRILLIANT NG must be cured layer by layer. Do not remove the inhibition layer since this would affect adhesion between the layers. In the event of underexposure, there is a risk that the ideal strength values may not be achieved. Overexposure is not possible. Equipment whose light output is unknown should be checked according to the corresponding instructions for use.

Finishing procedures

Finishing consists of three stages: coarse finishing, fine finishing and polishing. Finishing diamonds (40 µm and 15 µm) are the most versatile and the least destructive. They should be used with very light pressure, with a constant wiping motion and a generous water spray. The ideal speed ranges between 5000 and 15 000 rpm. Flexible diamond files (80 µm, 40 µm and 15 µm) and strips are suitable for approxi-

mal surfaces. For high gloss polishing results use DIAT-ECH Composite polisher or any comparable instruments. Fluoridize all treated surfaces after finishing.

Emergency measures

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 physician.


Note

Only supplied to dentists and dental laboratories or upon their instructions. Keep out of the reach of children! Do not mix different shades on the mixing pad, since this procedure will lead to air entrapment and porosities.

Storage

Store at 4 – 23°C / 39 – 73°F.
Avoid exposure to direct sunlight or other heat sources.

Marking

The expiry date and  number are marked on the syringes.

Caution

Federal law restricts this device to sale by or on the order of a dentist.



0123



Glossary



Consult instructions for use



Keep away from sun light



Temperature limitation



Notified body registration number



Identification for Russia



Identification for Ukraine




Legal manufacturer



Expiry date

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