

BRILLIANT Crios

Instructions for use

EN

Definition

BRILLIANT Crios is a reinforced CAD/CAM composite for the fabrication of permanent, aesthetic single-tooth restorations using a CAD/CAM process. The material is available in a variety of shades and as block or disc (for multiple single tooth restorations).

Composition

Dental glass, cross-linked methacrylates, amorphous silica

Indications

- Crowns, inlays, onlays and veneers
- Implant-supported crowns

Safety instructions

⚠ WARNING

- Contraindicated in the case of hypersensitivity to the ingredients of BRILLIANT Crios.
- Only supplied to dentists and dental technicians or upon their instructions.

NOTICE

- Pretreatment: sandblast restoration, do not etch with hydrofluoric acid.
- Observe adhesive mounting protocol.
- Do not fire the restoration.
- Do not use the product beyond its expiry date.
- Follow the instructions for use for the respective product.

Application

Stump and cavity preparation

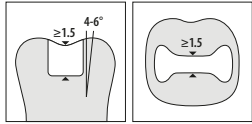
Crowns, inlays and onlays:

- Minimal occlusive thickness 1.5 mm
- Minimal buccal thickness 0.8 mm
- Minimal thickness under supporting cusp 1.5 mm
- Minimal cervical thickness 0.8 mm

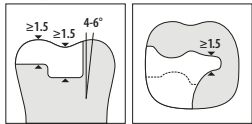
Veneers:

- Minimal cervical thickness 0.3 mm
- Minimal labial thickness 0.6 mm

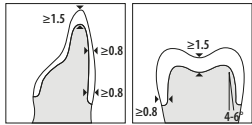
Inlay



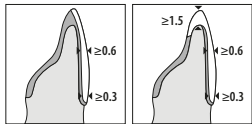
Onlay



Crown



Veneer



The creation of thinly tapered marginal areas is possible both during the design process and when finishing.

Maximum wall thicknesses

In order to ensure the adhesive bond between the luting material and restoration during final light-curing, the following maximum wall thicknesses must be observed for the restoration:

- ≤3 mm for light-curing luting materials
- ≤5 mm for dual-curing luting materials

Processing

Select program for COLTENE BRILLIANT Crios. Place the block/disc according to the manufacturer's instructions and start the grinding process. Diamond tools are required for processing. If the block/disc sizes or grinding or milling parameters are not available in the software settings of the CAD/CAM systems, they must be set in advance. To this purpose, please contact the corresponding CAD/CAM system provider. Check the restoration after grinding for defects such as cracks and material chipping. If the restoration is flawed, it must be

discarded.

Polishing

After grinding, polishing can be performed intraorally and extraorally using conventional rotary composite polishers or polishing paste.

Preparation of the restoration

Verify the fit of the restoration.

It is essential to sandblast the surfaces to be bonded with 25-50 µm aluminium oxide at 1.5 bar.

Cleaning

Clean the polished and sandblasted restoration using an ultrasonic or steam cleaner and dry with oil-free compressed air. Additional cleaning with ethanol is possible.

Adhesive bonding

To ensure adhesion to the restoration after grinding, ONE COAT 7 UNIVERSAL adhesive **must** be used.

Adhesive bonding to the restoration

Apply ONE COAT 7 UNIVERSAL to the sandblasted bonding surface of the cleaned restoration and rub in for 20 s. Remove excess adhesive with oil-free compressed air for 5 s.

A. Adhesive bonding to tooth substance or composite

Bonding to the tooth substance and/or composite can be carried out using an adhesive suitable for this purpose (e.g. ONE COAT 7 UNIVERSAL or One Coat Bond). Procedure according to manufacturer's instructions for use.

For bonding of the restoration, a dual-curing composite-based cement (e.g. DuoCem®) or a light-curing composite (e.g. BRILLIANT EverGlow) can be used. Procedure according to manufacturer's instructions for use.

Then light-cure each surface of the restoration for 30 s (light output ≥ 800 mW/cm²).

B. Adhesive bonding to metal or ceramic implant abutments

For bonding of the restoration, a self-adhesive, dual-curing composite-based cement (e.g. SoloCem®) is recommended. Procedure according to manufacturer's instructions for use.

Then light-cure each surface of the restoration for 30 s (light output ≥ 800 mW/cm²).


Modifications and repairs

BRILLIANT Crios can be modified, characterised or repaired at any time. Roughen the surface of the restoration using a diamond-coated rotary instrument.

Bonding can be carried out using an adhesive suitable for this purpose (e.g. ONE COAT 7 UNIVERSAL). Procedure according to manufacturer's instructions for use.

Finally, use shades for characterisation or composite (e.g. BRILLIANT EverGlow) according to the respective manufacturer's instructions.

Shelf life and labelling

The expiry date and  number can be found on the outer packaging.

Storage

Storage: 4-23 °C / 39-73°F

Do not expose to direct sunlight or other heat sources.

Caution

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

Date of issue

12-2022



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UATR10

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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