

REINFORCED CAD/CAM COMPOSITE FOR PERMANENT RESTORATION

BRILLIANT Crios

Handling Guideline





CONTENT

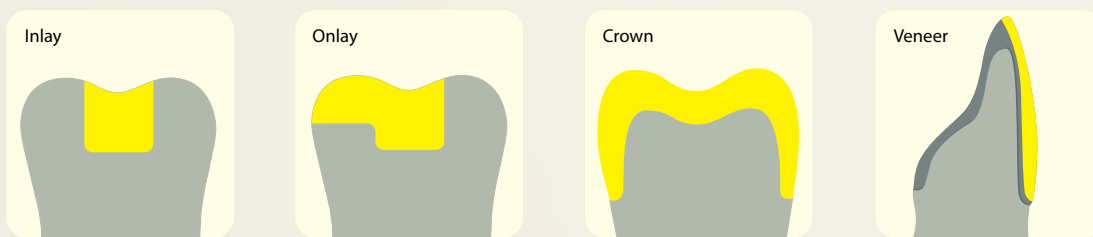
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BRILLIANT CRIOS

BRILLIANT CRIOS IS A REINFORCED CAD/CAM COMPOSITE FOR PERMANENT RESTORATION

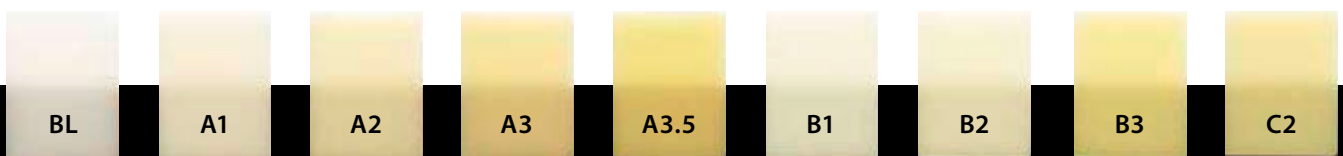
- High flexural strength for resistant restorations
- Tooth-like modulus of elasticity for a shock-absorbing effect and pleasant bite feeling
- Blends in extremely well to provide natural aesthetics
- High wear resistance and low abrasion on antagonist
- Secure bonding due to ONE COAT 7 UNIVERSAL
- Suitable luting material for every situation

INDICATIONS

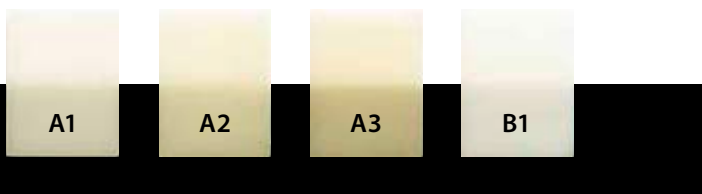


SHADES

Low Translucent



High Translucent



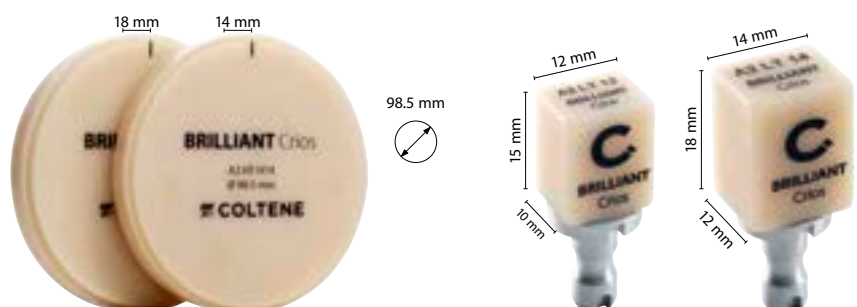
Super Translucent



Disc only available in certain shades.

SHAPES

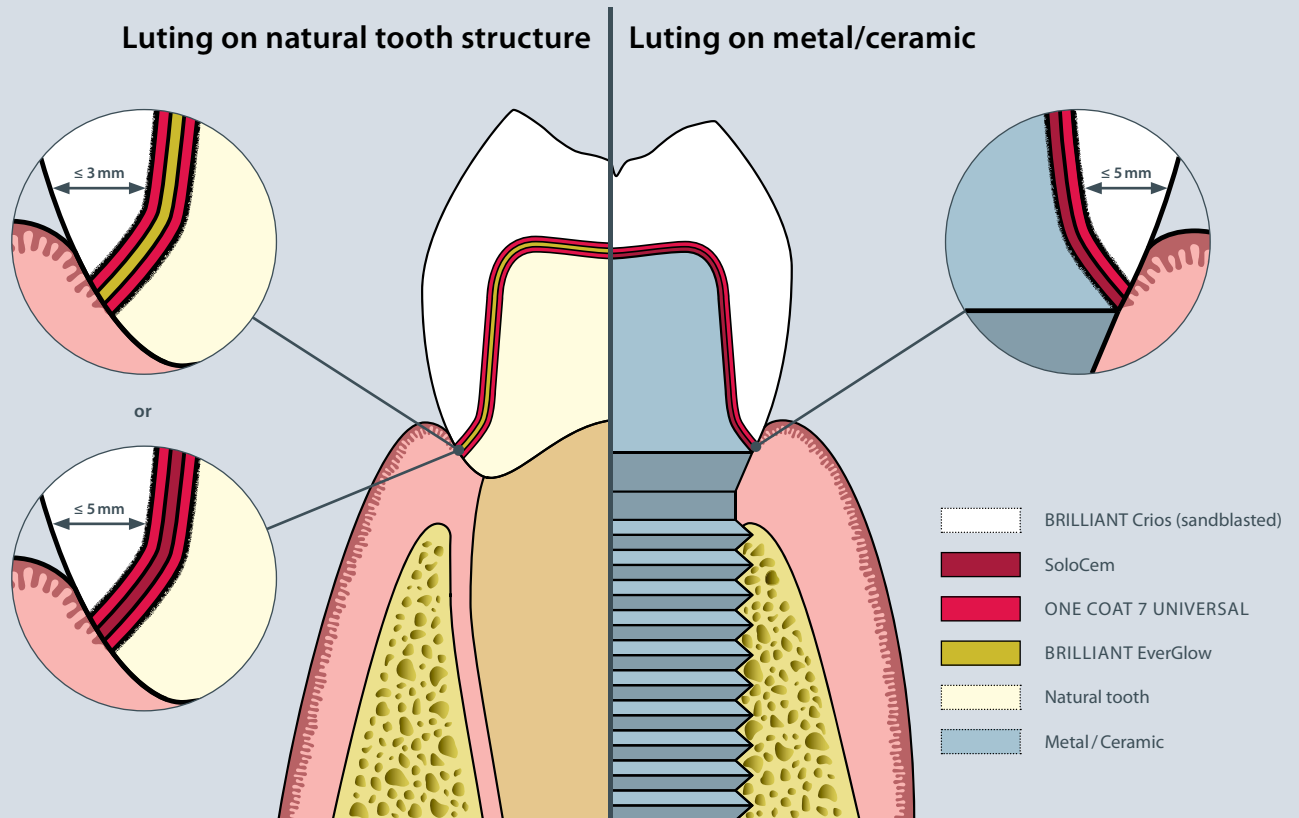
BRILLIANT Crios is available as block (12/14) and disc (H14/H18).



RELIABLE LUTING SYSTEM

As part of its adhesive filling therapy, COLTENE offers a matched and proven luting system for BRILLIANT Crios. The key component of the luting concept is the universal adhesive ONE COAT 7 UNIVERSAL. The smooth BRILLIANT EverGlow composite or the dual-curing resin cement

SoloCem offer indication-appropriate solutions, depending on the wall thickness of the restoration and the luting substrate, ranging from natural dentine to a metal abutment.



BRILLIANT EverGlow

Light-curing composite

Ideal for luting indirect restorations with thin wall design to natural tooth substance or composite:

- Smooth consistency and excellent wettability to simplify restoration placement
- Exceptional aesthetic and long-lasting results

For restorations up to 3 mm wall thickness



SoloCem

Self-adhesive, dual-curing resin cement

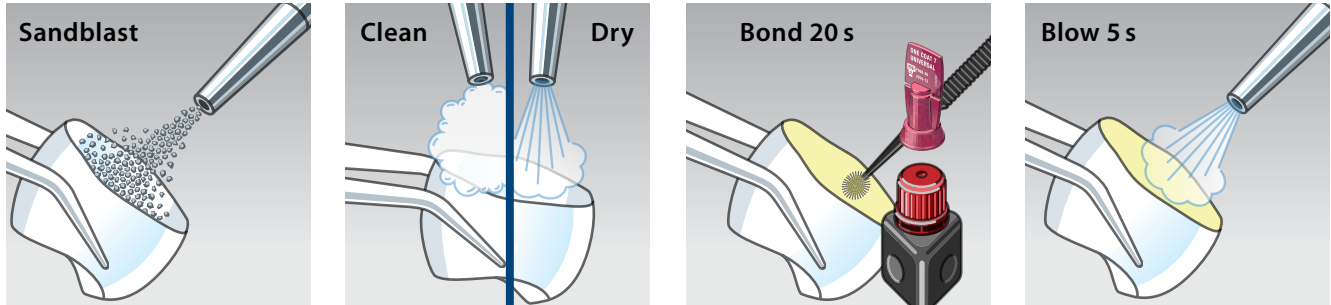
Convincing universal luting solution for any kind of substrate:

- To tooth/composite using ONE COAT 7 UNIVERSAL as additional bonding agent
- To metal/ceramic abutments, without requiring an additional bonding step

For restorations up to 5 mm wall thickness

KEY LUTING STEPS

STEP 1: TREATMENT OF BRILLIANT CRIOS RESTORATION



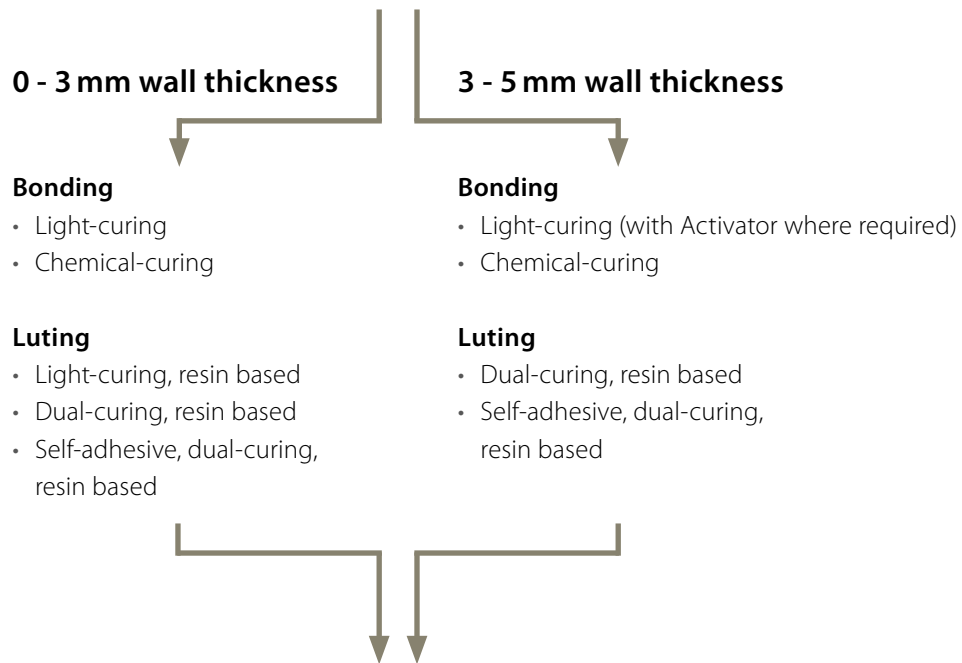
Sandblast the BRILLIANT Crios restoration. Use ONE COAT 7 UNIVERSAL as bonding agent on BRILLIANT Crios.

Note: Do not use hydrofluoric acid or silane!



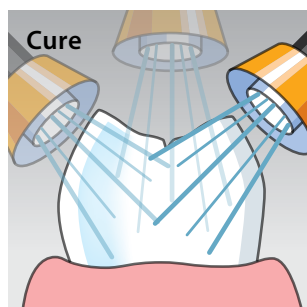
STEP 2: BONDING AND LUTING TO SUBSTRATE

Bonding and luting material must be chosen due to wall thickness of the BRILLIANT Crios restoration and the luting substrate. Follow the detailed proceeding according manufacturer's instructions for use.



STEP 3: FINAL CURING

Always light-cure each surface for 30 s at the end to cure the adhesive on the BRILLIANT Crios restoration.



IMPORTANT NOTES TO ENSURE A SUCCESSFUL LUTING

DO'S

- Use of a dental dam is recommended.
- Follow the guideline for preparation and wall thickness.
- ONE COAT 7 UNIVERSAL adhesive must be applied to BRILLIANT Crios, whereas the use of other bonding agents on the tooth substance is possible.
- If a light-curing bonding is used on tooth surface, always light cure before placing the restoration.
- Only resin based luting materials are allowed to be used.

DON'TS

- Do not use silane.
- Do not use inorganic cements.
- Do not lute with light-curing opaque shades.
- Do not fire BRILLIANT Crios.
- Do not use hydrofluoric acid.



STEP-BY-STEP GUIDELINE INLAY/ONLAY/CROWN

COLTENE SUGGESTS

Bond to restoration
ONE COAT 7 UNIVERSAL
(mandatory)

Bond to tooth surface
ONE COAT 7 UNIVERSAL*

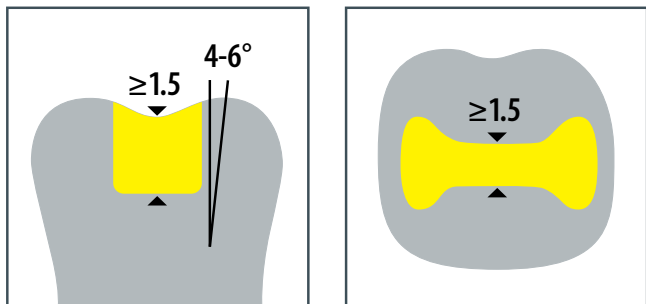
Etch
Etchant Gel S

Lute
SoloCem

If other materials are used, the exact procedure can slightly differ. Please proceed according to manufacturer's instructions for use.

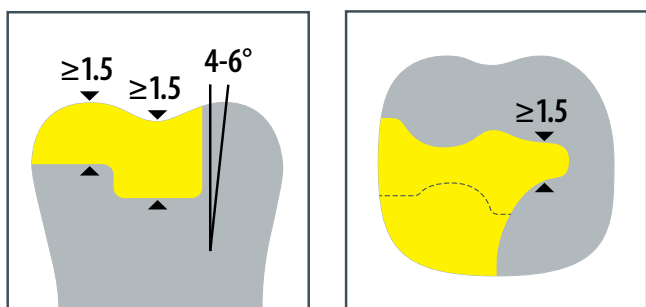
PREPARATION GUIDELINE

INLAY



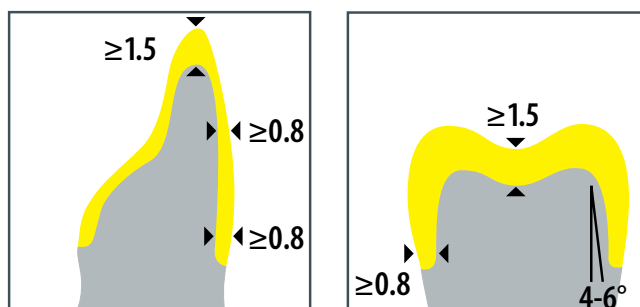
- Minimal occlusive thickness 1.5 mm
- Preparation angle: 4-6°

ONLAY



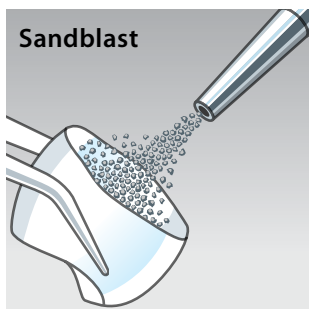
- Minimal occlusive thickness 1.5 mm
- Minimal thickness under supporting cusp 1.5 mm
- Preparation angle: 4-6°

CROWN



- 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
- Preparation angle: 4-6°

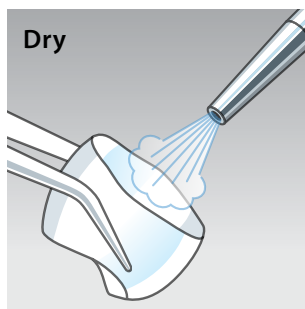
STEP 1: PRETREATMENT BRILLIANT CRIOS RESTORATION



Sandblast the surface to be bonded with 25-50 µm aluminium oxide at 1.5 bar. **Note:** Do not etch the restoration with hydrofluoric acid.

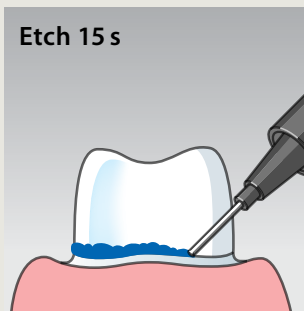


Clean with ultrasonic cleaner (e.g. 1 min, ethanol 70%) or steam cleaner (e.g. 5 s per unit, 4,5 bar).



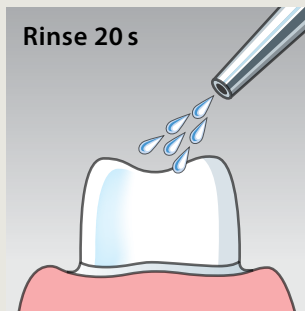
Dry with oil-free compressed air.

STEP 2: PRETREATMENT PREPARATION*



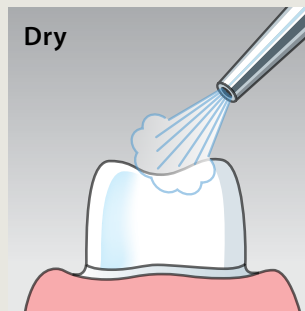
Etch 15 s

Apply Etchant Gel S directly from the applicator needle on the surface to be treated. Etching time: 15 s. **Note:** Selective etch is recommended for optimum adhesive results.



Rinse 20 s

Rinse thoroughly with water until all traces of Etchant Gel S have been removed.



Dry

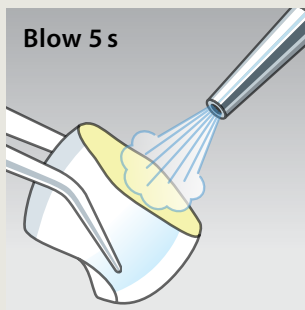
Dry with pressurized oil-free air, taking care not to overdry the dentine.

STEP 3: LUTING



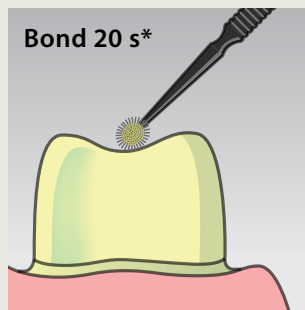
Bond 20 s

Apply ONE COAT 7 UNIVERSAL to the bonding surface with a disposable dentalbrush and rub in for 20 s. **Note:** Do not use other bonding agents or silane!



Blow 5 s

Blow gently with oil-free compressed air for 5 s.



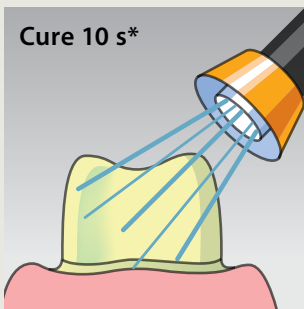
Bond 20 s*

Apply ONE COAT 7 UNIVERSAL to dentine and enamel with a disposable dentalbrush and rub in for 20 s.



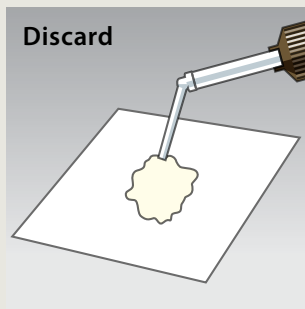
Blow 5 s*

Blow gently with oil-free compressed air for 5 s.



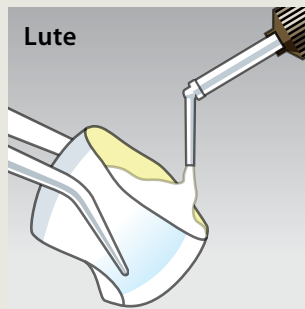
Cure 10 s*

Light-cure for 10 s (Light intensity $\geq 800 \text{ mW} / \text{cm}^2$).



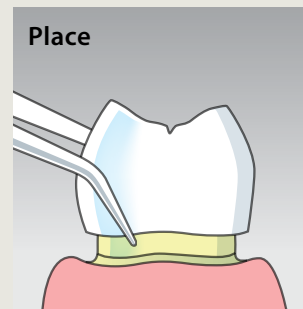
Discard

Dispense material and discard until even, homogeneous paste flows.



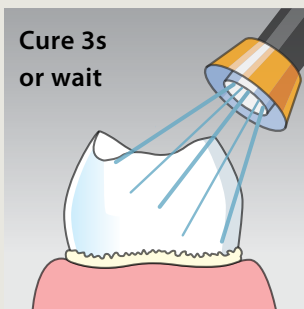
Lute

Apply SoloCem directly to the interior surfaces of the restoration and/or to the preparation if necessary.



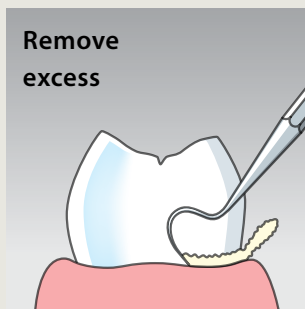
Place

Fix the restoration in place by applying light pressure.



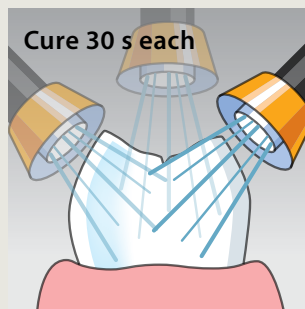
Cure 3s or wait

Tack cure for 3s or wait for chemical curing.



Remove excess

Remove remaining excess



Cure 30 s each

Light-cure each surface of the restoration for 30 s (Light intensity $\geq 800 \text{ mW} / \text{cm}^2$).

*Optional: If improved bond strength is required due to low retentive preparation.

STEP-BY-STEP GUIDELINE CROWN ON IMPLANT ABUTMENT

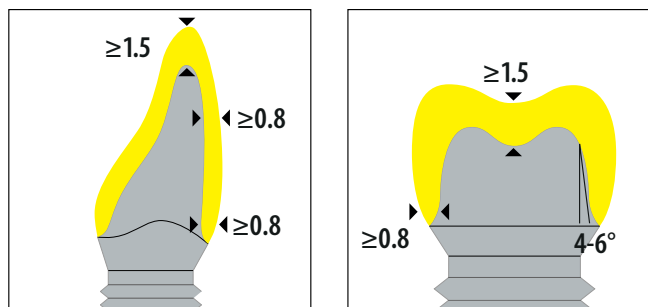
COLTENE SUGGESTS

Bond to restoration
ONE COAT 7 UNIVERSAL
(mandatory)

Lute
SoloCem

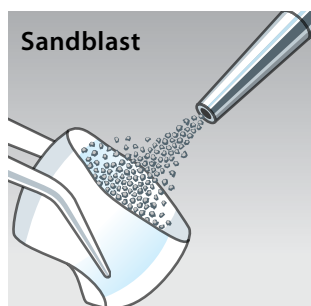
If other materials are used,
the exact procedure can slightly
differ. Please proceed according
to manufacturer's instructions
for use.

PREPARATION GUIDELINE



- 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
- Preparation angle: 4-6°

STEP 1: PRETREATMENT BRILLIANT CRIOS RESTORATION



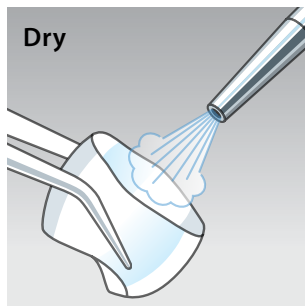
Sandblast

Sandblast the surface to be bonded with 25-50 µm aluminium oxide at 1.5 bar. **Note:** Do not etch the restoration with hydrofluoric acid.



Clean

Clean with ultrasonic cleaner (e.g. 1 min, ethanol 70%) or steam cleaner (e.g. 5 s per unit, 4.5 bar).

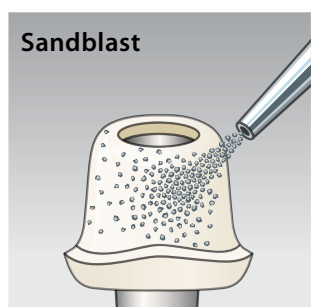


Dry

Dry with oil-free compressed air.

STEP 2: PRETREATMENT PREPARATION

Metal/Zirconia, Sandblast



Sandblast

Sandblast according to the instructions for use of the respective manufacturer.



Clean

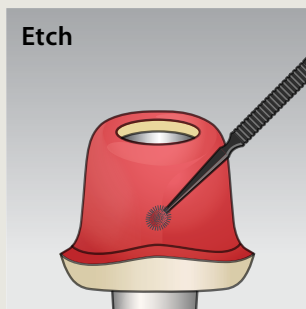
Clean according to the instructions for use of the respective manufacturer.



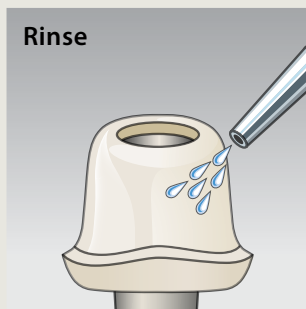
Dry

Dry with oil-free compressed air.

Silicate Ceramic, Hydrofluoric Etch



Etch
Etch according to the instructions for use of the respective manufacturer.

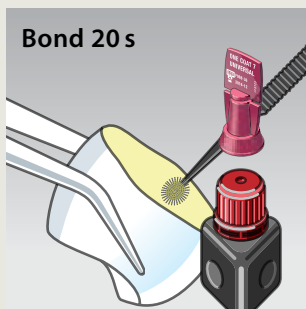


Rinse
Rinse with water according to the instructions for use of the respective manufacturer.

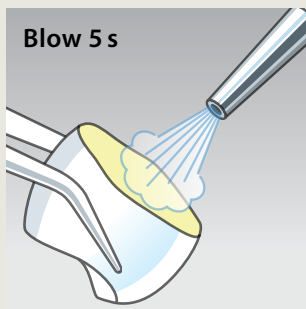


Dry
Dry with oil-free compressed air.

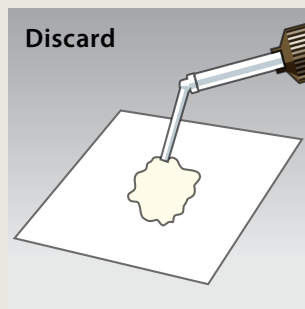
STEP 3: LUTING



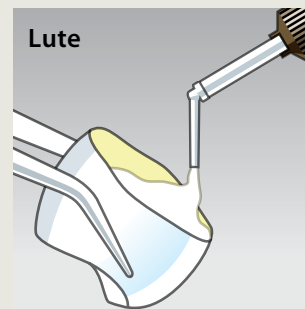
Bond 20 s
Apply ONE COAT 7 UNIVERSAL to the bonding surface with a disposable dentalbrush and rub in for 20 s. **Note:** Do not use other bonding agents or silane!



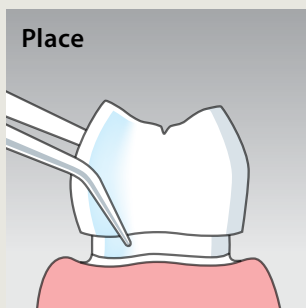
Blow 5 s
Blow gently with oil-free compressed air for 5 s.



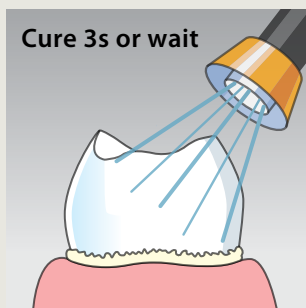
Discard
Dispense material and discard until even, homogeneous paste flows.



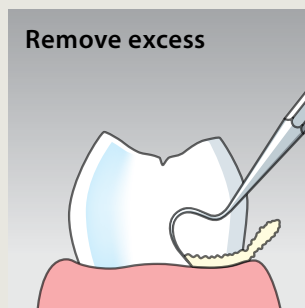
Lute
Apply SoloCem directly to the interior surfaces of the restoration and/or to the implant abutments or stumps if necessary.



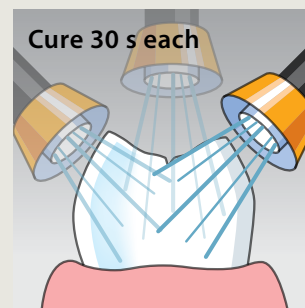
Place
Fix the restoration in place by applying light pressure.



Cure 3s or wait
Tack cure for 3s or wait for chemical curing.



Remove excess
Remove remaining excess



Cure 30 s each
Light-cure each surface of the restoration for 30 s (Light intensity $\geq 800 \text{ mW} / \text{cm}^2$).

STEP-BY-STEP GUIDELINE VENEER

COLTENE SUGGESTS

Bond to restoration
ONE COAT 7 UNIVERSAL
(mandatory)

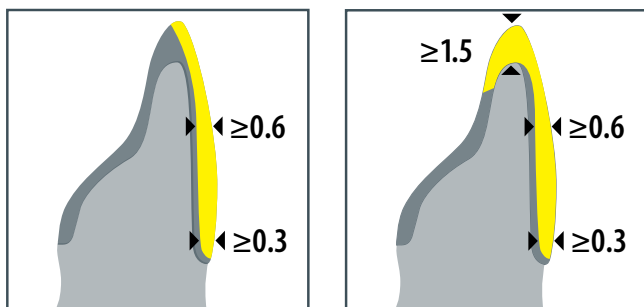
Bond to tooth surface
ONE COAT 7 UNIVERSAL

Etch
Etchant Gel S

Lute
BRILLIANT EverGlow

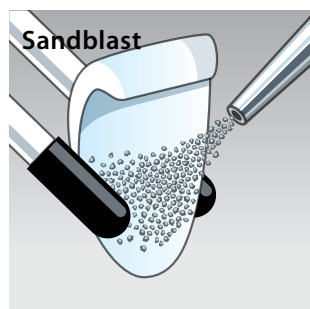
If other materials are used, the exact procedure can slightly differ. Please proceed according to manufacturer's instructions for use.

PREPARATION GUIDELINE



- Minimal occlusive thickness 1.5 mm
- Minimal cervical thickness 0.3 mm
- Minimal labial thickness 0.6 mm

STEP 1: PRETREATMENT BRILLIANT CRIOS RESTORATION



Sandblast the surface to be bonded with 25-50 µm aluminium oxide at 1.5 bar. **Note:** Do not etch the restoration with hydrofluoric acid.

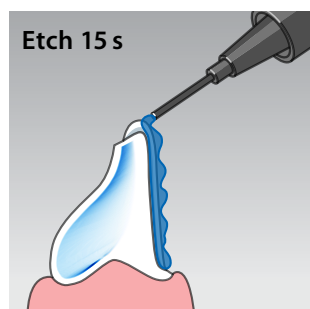


Clean with ultrasonic cleaner (e.g. 1 min, ethanol 70%) or steam cleaner (e.g. 5 s per unit, 4,5 bar).

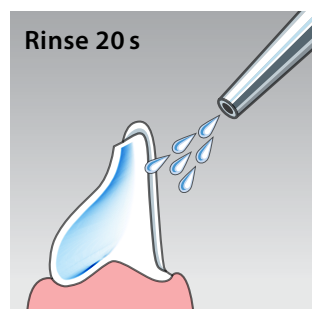


Dry with oil-free compressed air.

STEP 2: PRETREATMENT PREPARATION



Apply Etchant Gel S directly from the applicator needle on the surface to be treated. Etching time: 15 s. **Note:** Total etch is recommended for optimum adhesive results.

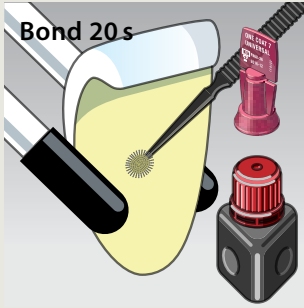


Rinse thoroughly with water until all traces of Etchant Gel S have been removed.



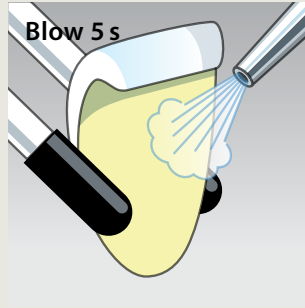
Dry with pressurized oil-free air, taking care not to overdry the dentine.

STEP 3: LUTING



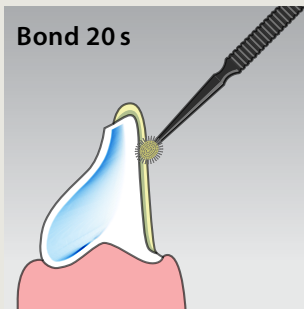
Bond 20 s

Apply ONE COAT 7 UNIVERSAL to the bonding surface with a disposable dentalbrush and rub in for 20 s. **Note:** Do not use other bonding agents or silane!



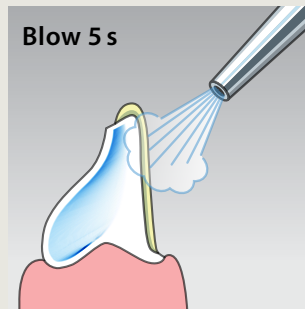
Blow 5 s

Blow gently with oil-free compressed air for 5 s.



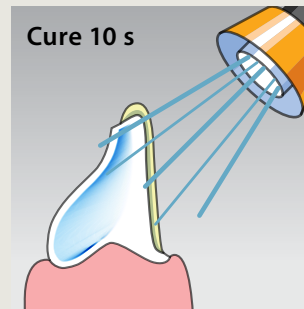
Bond 20 s

Apply ONE COAT 7 UNIVERSAL to dentine and enamel with a disposable dentalbrush and rub in for 20 s.



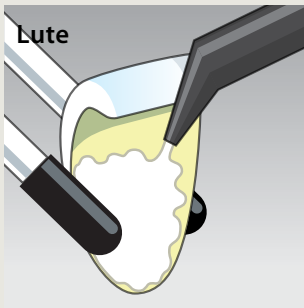
Blow 5 s

Blow gently with oil-free compressed air for 5 s.



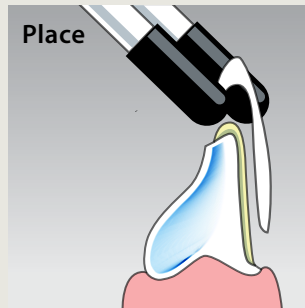
Cure 10 s

Light-cure for 10 s (Light intensity $\geq 800 \text{ mW/cm}^2$).



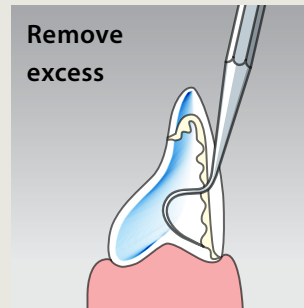
Lute

Apply BRILLIANT EverGlow to the contact surface of the restoration and shape to the margins.



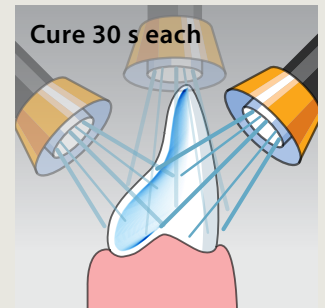
Place

Position the restoration on the tooth and move carefully to the final position.



Remove excess

While holding in position, remove excess.



Cure 30 s each

Light-cure each surface of the restoration for 30 s (Light intensity $\geq 800 \text{ mW/cm}^2$).

STEP-BY-STEP GUIDELINE POLISHING

COLTENE SUGGESTS

It is recommended to polish BRILLIANT Crios intraorally using DIATECH ShapeGuard silicone polishers for a fast and superior high luster result.

All DIATECH polishers can be used without paste and should be used wet when polishing intraorally.

STEP 1: ADJUSTMENT AND FINISHING

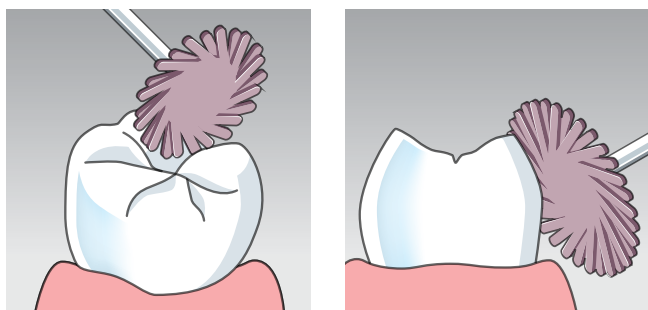


Grinding off sprue, grinding-in of the precontacts and modification of cusp slopes with a fine diamond bur (368-314-023-5F). Finish of the sprue area and, if necessary, of other surfaces with a flame shaped polisher (2303RA).

RPM 368-314-023-5F: 40'000 – 75'000

RPM 2303RA: 3'000 – 8'000

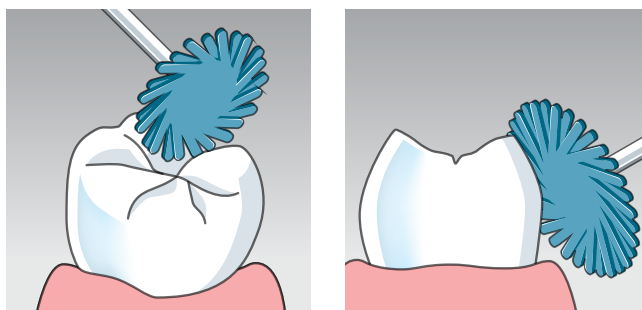
STEP 2: PREPOLISHING



Prepolishing of the occlusal surface (23SG11RA), buccal and palatal (23SG14RA) with DIATECH ShapeGuard for composite (System Comprepol Plus).

RPM: 10'000 – 12'000

STEP 3: HIGH LUSTER POLISHING



High luster polishing of the occlusal surface (24SG11RA), buccal and palatal (24SG14RA) with DIATECH ShapeGuard for composite (System Composhine Plus).

RPM: 10'000 – 12'000

STEP-BY-STEP GUIDELINE MODIFICATION OR REPAIR

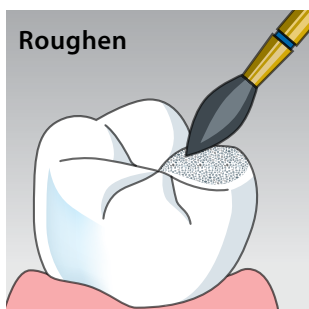
COLTENE SUGGESTS

Bond to restoration
ONE COAT 7 UNIVERSAL

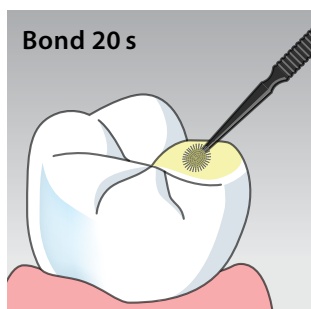
Modification / Repair
BRILLIANT EverGlow

If other materials are used, the exact procedure can slightly differ. Please proceed according manufacturer's instructions for use.

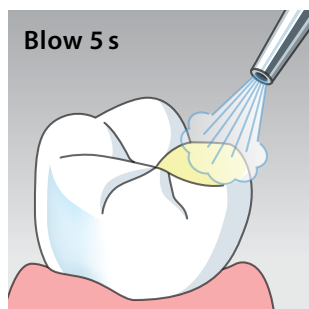
STEP 1: PREPARATION STEP 2: BOND



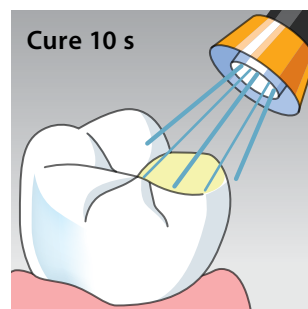
Roughen
Roughen the surface of the restoration using a diamond-coated rotary instrument.



Bond 20 s
Apply ONE COAT 7 UNIVERSAL to dentine and enamel with a disposable dentalbrush and rub in for 20 s.

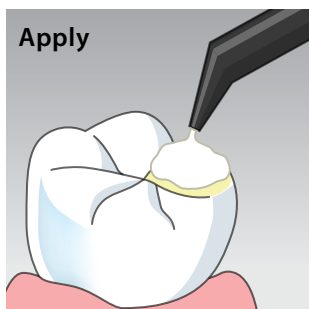


Blow 5 s
Blow gently with oil-free compressed air for 5 s.

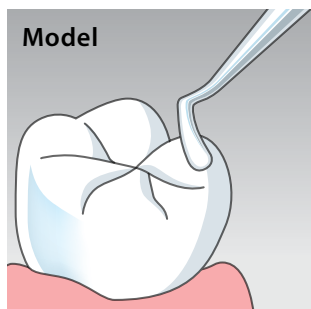


Cure 10 s
Light-cure for 10 s (Light intensity $\geq 800 \text{ mW/cm}^2$).

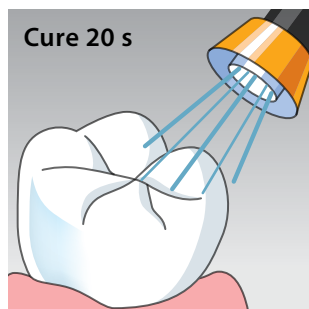
STEP 3: MODIFY



Apply
Apply BRILLIANT EverGlow to the surfaces.

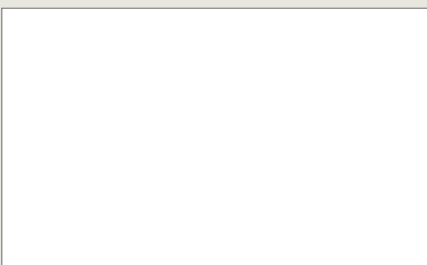


Model
Model to the desired shape.



Cure 20 s
Light-cure for 20 s (Light intensity $\geq 800 \text{ mW/cm}^2$).

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