

Onlay & overlay from A to Z: Immediate dentin sealing with G-Premio BOND or G2-BOND Universal



WHY IMMEDIATE DENTIN SEALING?

Resin infiltration into the dentin surface is more effective on freshly cut dentin because it is uncontaminated and clean.

IDS protects dentin against contamination with bacteria or remnants of temporary cements.

It prevents post-operative sensitivity by sealing dentin tubules.

It increases bond strength of the final indirect restoration to the tooth.

It often eliminates the need for anesthesia during the cementation procedure (when restoration is delivered in the next appointment).

2A. G-Premio BOND



1. Clean the tooth surfaces, rinse thoroughly and dry.



Apply G-Premio BOND.

OR



Apply 1-PRIMER of G2-BOND Universal.

10 sec.

2B. G2-BOND Universal



Dry.

5 sec.



Apply 2-BOND of G2-BOND Universal.



3. Air blow to make a uniform bonding layer.



10 sec.

4. Light-cure.



5. Fill in the undercuts with everX Flow. Perform deep margin elevation if needed.*



6. Remove unpolymerized layer. Expose enamel covered with adhesive with a fine grit diamond bur.

TIPS & TRICKS

- Placing a rubber dam and isolating neighbouring teeth with teflon tape are always recommended.
- Use maximum air pressure to dry 1-PRIMER to remove the solvent & residues of water.
- 1-PRIMER should be kept out of light as it contains photoinitiators.
- When doing immediate dentin sealing with G-Premio BOND, it is recommended to add a thin layer of G-aenial Universal Injectable or a flowable composite on top.

Onlay & overlay from A to Z: Deep margin elevation with G-aenial Universal Injectable



WHY DEEP MARGIN ELEVATION?

Deep margin elevation will make impression easier by moving the proximal margin of the restoration supra-gingivally, which is especially important for intra-oral scanning. It helps avoiding periodontal surgical procedures. It makes isolation of the prepared tooth and luting of the final restoration easier.



1. Clean the tooth surfaces, rinse thoroughly and dry.



2. Apply a matrix adapted to the technique. Gingival margin of the preparation should be well sealed.



3. Etch the enamel.



4. Apply a bonding agent (G-Premio BOND or G2-BOND Universal).



5. Dry and light-cure.

Scan the QR code for more information:



6. Apply G-aenial Universal Injectable to the gingival margin of the proximal box.



7. Light-cure.



8. Remove the matrix and check for any overhangs. Expose the enamel covered with adhesive on the rest of the tooth with a fine grit diamond bur.

TIPS & TRICKS

- Isolation with rubber dam is highly recommended.
- For a better emergence profile, use teflon tape in the space between the matrix and the adjacent tooth instead of a wedge. Do not use the same matrix as you use for creating a contact point in direct restorations.
- Selective etching of the enamel is recommended.
- Use XBW shade of G-aenial Universal Injectable for easy differentiation between the tooth, composite material and the restoration.
- The height of the new margin should be slightly above the gingival margin (1mm).