

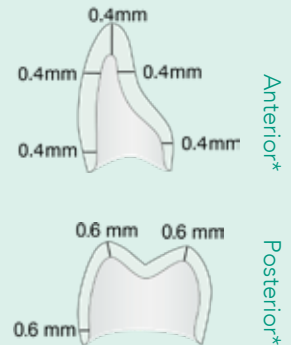
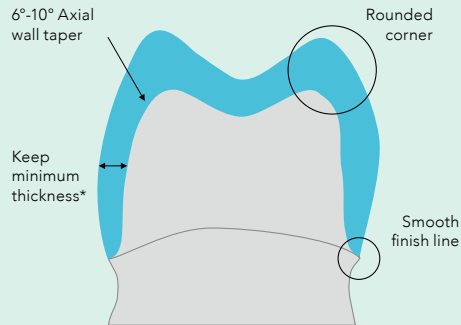
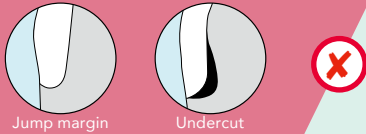
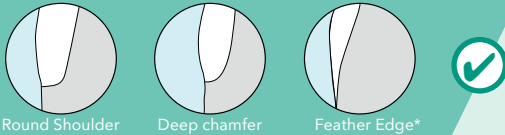
ZIRCONIA: SIMPLICITY & AESTHETICS

At first glance, zirconia might seem like a fast and simple solution for restorations where aesthetic demands are moderate. With advancement in technology and finishing options, zirconia can now be used even in aesthetic anterior area, while preserving its high strength. Here are some guidelines for best use of zirconia in your aesthetic crowns!

Scan the QR code for more information:



Preparation recommendations



*Recommendations for GC Initial Zirconia Disk HT/ST. Always follow the manufacturer's instructions.

Luting recommendations



Retentive shape is sufficient

Margins are subgingival Isolation is difficult

Moderate aesthetics are needed

Preferred when the caries risk is high thanks to ion release

Find the step-by-step for all your cementations on GC Luting Guide:



Download on the App Store



Get it on Google Play



FujiCEM Evolve: This easy-to-use and versatile RMGIC is your perfect partner for most of your routine cementation.

- **Strong bonding** to tooth and restoration, especially to Zirconia
- **Quick and easy:** no need for etching and bonding of the tooth
- **Excellent marginal seal** thanks to chemical adhesion to tooth structure
- **Moisture-tolerant:** a "must-have" when moisture control cannot be guaranteed
- **Rubbery consistency** for easy removal of excess, with tack-cure option

Alternatively, G-CEM ONE, a Universal self-adhesive cement can be used.



Preparation step-by-step



1. Before starting the preparation, a silicone key or an intra oral scan can be made to check the reduction.



2. Control the depth of preparation by making grooves and by removing the marginal crests.



3. After crest reduction, prepare the vestibular side, following buccal surface with progressive angulation.



4. Protecting of the adjacent teeth and keeping an interproximal low taper are strongly advised.



5. Preparation reduction can be followed by the lingual side.



6. Depth of the preparation can be checked at any point with a silicone key or intra oral scanner.



7. Impression can be made in a conventional or digital way.

MISTAKES TO AVOID IN PREPARATION:

- Not respecting the natural shape on the reduction
- Very strong taper/conicity
- Flat occlusal face
- Conservation of marginal ridge
- Not respecting the gingival contour

Pre-treatment step-by-step



1. Clean, rinse and dry the preparation.



2. Check the fit & occlusion.



3. Remove the restoration and sandblast 25-50 µm alumina 0.15 MPa/1.5 bar.



4. Rinse and dry the restoration.



Note: for optimal adhesion, apply MDP primer such as G-Multi Primer on the restoration (not mandatory for FujiCEM Evolve or G-CEM ONE).



5. Rinse and dry the prepared tooth.

Luting step-by-step with FujiCEM Evolve



6. Bleed the syringe before use to ensure even extrusion of the pastes.



7A. Apply FujiCEM Evolve directly into the restoration using a mixing tip.



7B. Mix the pastes for 10 sec. Apply the mixed FujiCEM Evolve directly into the restoration.



8. Immediately seat onto the preparation. Maintain moderate pressure.



Optionally for FujiCEM Evolve, excess can be tack-cured for 3 sec.



9. When the cement feels rubbery, remove the excess while maintaining moderate pressure.



10. Proceed with occlusion check and finishing 4'30 after seating the restoration.

TIPS & TRICKS

- For temporization, use TEMPSMART DC for beautiful results and easy polishing.
- Sandblasting of the tooth surface before luting is highly recommended.
- Use of MDP primer on the zirconia restoration is optional for G-CEM ONE and FujiCEM Evolve.

- In case of non-retentive shape of preparation, G-CEM ONE in combination with G-CEM ONE Adhesive Enhancing Primer or G-Premio BOND can be used to increase the adhesion.