

CEMENTING OR BONDING / ADJUSTING & POLISHING

BruxZir® CROWNS & BRIDGES

CEMENTING / BONDING:

Retentive tooth preparation: Minimum tooth prep height 3 mm with minimal taper. BruxZir® restorations can be cemented with any conventional luting cements: glass ionomer (GI), resin-modified glass ionomer (RMGI) such as RelyX™ Luting Plus (3M) and FujiCEM® 2 (GC America), or self-adhesive resin cements such as RelyX™ Unicem (3M) and Maxcem Elite™ (Kerr).

1. Try BruxZir® crown and make any necessary adjustments to contacts and occlusion.
2. Clean internal surface of BruxZir® restoration using one of the following methods: a. Sandblast with 50-micron aluminum oxide. Rinse and dry; b. Apply zirconia cleaner, such as Ivoclean® (Ivoclar Vivadent) or ZirClean® (BISCO), to internal surface for 20 seconds. Rinse and dry; c. Apply 5% NaClO (sodium hypochlorite) to internal surface for 20 seconds. Rinse and dry. **Do NOT clean with phosphoric acid**
3. Mix and place luting cement of choice in crown, seat and proceed with cleanup based on manufacturer's instructions.

Non-retentive tooth preparation: Tooth prep height less than 3 mm or excessive taper. BruxZir® restorations should be cemented with an adhesive resin cement such as RelyX™ Ultimate (3M), Multilink® Automix (Ivoclar Vivadent), NX3 Nexus™ (Kerr), or Panavia™ V5 (Kuraray).

1. Try BruxZir® crown and make any necessary adjustments to contacts and occlusion. We recommend using the BruxZir Adjustment & Polishing Kit.
2. Clean internal surface using one of the following methods: a. Sandblast with 50-micron aluminum oxide. Rinse and dry; b. Apply zirconia cleaner, such as Ivoclean® (Ivoclar Vivadent) or ZirClean® (BISCO), to internal surface for 20 seconds. Rinse and dry; c. Apply 5% NaClO (sodium hypochlorite) to internal surface for 20 seconds. Rinse and dry. **Do NOT clean with phosphoric acid**
3. Place zirconia primer on internal surface of BruxZir® restoration, such as Z-Prime™ Plus (BISCO) and dry for 3–5 seconds with an air syringe, or Monobond™ Plus (Ivoclar Vivadent) and let react for 60 seconds then dry with an air syringe.
4. Mix and place any recommended resin cement on the internal surface of the restoration, seat crown and proceed with cleanup based on manufacturer's instructions.

ADJUSTING & POLISHING:

Adjustment Caution: Minimum thickness to maintain the full strength of BruxZir® is 1.0 mm. To prevent breakage, do not adjust bridge connector areas.

Adjust BruxZir® restorations using a fine-grit diamond with light pressure to avoid potential microfractures, or purchase the BruxZir Adjustment & Polishing Kit by calling 888-303-3975.

- A football-shaped bur is most effective for adjusting occlusion on the occlusal surfaces of posterior teeth and lingual surfaces of anterior teeth.
- A tapered bur is used for adjusting cusps or proximal contacts.
- A round bur is used to adjust a cusp or a fossa and for creating endodontic access.

Polish BruxZir® restorations with the BruxZir Adjustment & Polishing Kit or the porcelain-polishing system of your choice.

- Using light pressure and no water, begin pre-polishing with the green cup. This will remove abrasions left by the diamonds during adjustment. The green cup can also be used alone for minor adjustments if you don't want to use a diamond.
- Continue pre-polishing with the brown cup until a glossier look appears over the adjustment areas.
- Use the white cup with light to medium pressure to achieve a "wet" high shine.
- The diamond-infused polishing discs gently remove surface defects and can be used to achieve a natural, high-shine where the polishing cups may not easily access.

Technical Questions? Contact Jim Gorgol, CDT at 800-552-7890