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- 1) Remove provisional
- 2) Clean preparation with Chlorahexadine pumice

Recommended Product:

- Consepsis Scrub (Ultradent)
- 3) Try-in restorations using water or glycerin
- 4) After checking aesthetics and proximal contacts, rinse thoroughly
- 5) Prepare restoration for bonding
 - a) If restoration is lithium disilicate (e.max)
 - i) Clean internal with phosphoric acid, rinse, and dry
 - ii) Apply silane coupling agent for 1 minute

Posterior Non-Adhesive Cementation

Often times, it becomes almost impossible to isolate a posterior preparation to a degree that will allow utilizing a "Total-Etch" or "Select-Etch" technique. With the introduction of more durable and higher flexural strength ceramics, it is acceptable to lute these restorations using a less technique-sensitive protocol. These cements include self-etching resin cements, resin ionomer cements, and bioceramic cements. I prefer to use a self-etching resin cement for these restorations due to their relative high translucency, low film thickness, ease of use, dual-cure properties, and some adhesion to dentin and enamel.

Types of restorations

e.max (lithium disilicate) crowns 1.5 mm thick or greater with adequate retention preparations, zirconium-oxide restorations with adequate retention preparations (both monolithic and core supported), and metal-supported restorations

- Recommended Products:
- Porcelain Primer (Bisco)
- MonoBond + (Ivoclar)
- b) If restoration is zirconium-oxide or metalbased
 - i) Clean internal with NaOH2

Recommended Product:

- Ivoclean (Ivoclar)
- ii) Place Zirconium-oxide/metal primer on internal surface for 1 minute

Recommended Product:

- Z Prime + (Bisco)
- c) Place the dual-cure, self-resin cement on the inside of the restoration

Recommended Products:

• BisCem (Bisco)

- MaxCem Elite (Kerr)
- Unicem 2 (3M)
- MultiLink Automix (Ivoclar)
- d) Seat restoration completely using blunt tipped instrument - do not clean up excess
- e) "Tack"- using a 2.0 mm light guide in middle of occlusal surface for 5 seconds, away from margins
- f) "Wave"- using 8.0 mm or 11.0 mm light guide and "Wave" all margins for a total of 5 seconds
- g) Remove excess resin gently using Bard Parker blades, scalers, and explorer

- h) Floss through contacts using waxed dental floss
- i) Place glycerin around all margins

Recommended Products:

- DeOx (Ultradent)
- Liquid Strip (Ivoclar)
- j) Light polymerize for at least 40 seconds
- k) Rinse off glycerin
- I) Remove excess cement using scalers, Bard Parker blades, etc
- m) Finish margins and adjust occlusion using 15 or 25 μm finishing diamonds

Recommended Product:

- Hornbrook Finishing kit (Brasseler)
- n) Finish interproximals with finishing strips Recommended Product:
 - 1954N strip (3M)
- o) Polish all margins (that were adjusted) and occlusal surfaces using ceramic polishing points and cups

Recommended Products:

- Hornbrook Lithium disilicate adjusting and polishing kit (DiaShine/VH Technologies)
- Hornbrook Zirconium-oxide adjusting and polishing kit (DiaShine/VH Technologies)
- OptraFine (Ivoclar)





Cementation Guidelines courtesy of Keating Dental Arts

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For technical questions, contact Dr. David Hornbrook at hornbrook@keatingdentalarts.com