

36 South 300 East Provo, UT 84606 800-927-6967 www.utahvalleydentallab.com

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

Recommended Products:

- 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 IPS Empress or lithium disilicate (e.max)
 - i) Clean internal with phosphoric acid, rinse, and dry
 - ii) Apply silane coupling agent for 1 minute

Recommended Products:

• Porcelain Primer (Bisco)

Posterior Adhesive Cementation

The most durable and strongest bond when cementing posterior restorations is always to use a "Total-Etch" or "Select-Etch" dentinal adhesive system combined with a resin cement. My recommendation is to use either a 4th or 8th generation adhesive system and a "dual-cure" cement which allows for complete polymerization even in areas where there is little light penetration.

Types of restorations

IPS Empress crowns, e.max (lithium disilicate) crowns less than 1.5 mm thick or with low retention preparations, inlays and onlays, and zirconium-oxide restorations with low retention preparations (both monolithic and core supported)

- MonoBond + (Ivoclar)
- b) If restoration is zirconium-oxide
 - 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 a very thin layer of unfilled resin and air thin

Recommended Product:

- Porcelain Bonding Resin (Bisco)
- d) Place the light-cure only resin cement on the inside of the restoration and place in light protective container

Recommended Products:

Dual cure resin cement

- Duolink (Bisco)
- NX 3 (Kerr)
- Light protective container
- VivaPad (Ivoclar)

6) Prepare teeth for adhesive bonding

 a) Etch dentin and enamel for 15-20 seconds using a 35% phosphoric acid (For Select-Etch procedure, etch enamel only)

Recommended Product:

- HV Select Etch (Bisco)
- b) Rinse and lightly dry
- c) Apply glutaraldehyde /water/ HEMA desensitizer

Recommended Products:

- MicroPrime G (Danville)
- Telio Desensitizer (Ivoclar)
- Gluma (Heraeus)

- d) Place dentinal-enamel adhesive agent
 - Recommended Products:
 - All Bond 3 (Bisco)
 - All Bond Universal (Bisco)
 - Scotchbond Universal (3M)
 - Adhese Universal (Ivoclar)
- e) Air dry and light polymerize for 10 seconds

Recommended Products:

- Bluephase Style (Ivoclar)
- Valo Cordless (Ultradent)
- f) Seat restoration completely using blunt tipped instrument - do not clean up excess
- g) "Tack"- using a 2.0 mm light guide in middle of occlusal surface for 5 seconds, away from margin
- h) "Wave"- using 8.0 mm or 11.0 mm light guide and "Wave" all margins for a total of 5 seconds
- i) Remove excess resin gently using Bard Parker blades, scalers, and explorer
- j) Floss through contacts metal strip
 - **Recommended Product:**
 - Serrated Saw (Brasseler)
- k) Floss through contacts using waxed dental floss
- I) Place glycerin around all margins
 - **Recommended Products:**
 - DeOx (Ultradent)
 - Liquid Strip (Ivoclar)

- m) Light polymerize for at least 40 seconds
- n) Rinse off glycerin
- o) Remove excess cement using scalers, Bard Parker blades, etc
- p) Finish margins and adjust occlusion using 15 or 25 μm finishing diamonds

Recommended Product:

- Hornbrook Finishing kit (Brasseler)
- q) Finish interproximals with finishing strips Recommended Product:
 - 1954N strip (3M)
- r) 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)
- OptraFine (Ivoclar)



For technical questions, contact
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