

# CLINICIAN TECHNIQUE GUIDE



## Cement Selection Guide



Type of Ceramic	Type of Restoration	Bond or Cement	Cementation Protocol	Suggested Cements
<b>Feldspathic</b> <i>CEREC Bloc (Sirona);</i> <i>VITABLOCS (VITA)</i>	Inlays, Onlays, Crowns, Veneers  <b>(excluding 2nd molar crowns)</b>	Bond, then resin cement	<b>Tooth Surface:</b> <ol style="list-style-type: none"> <li>1. Etch with phosphoric acid</li> <li>2. Rinse</li> <li>3. Apply bonding agent (4th- or 5th-generation)</li> </ol> <b>Ceramic Internal Surface:</b> <ol style="list-style-type: none"> <li>4. Etch with HF at lab</li> <li>5. Silanate chairside</li> <li>6. Cement with light-cure or dual-cure resin cement</li> </ol>	<b>ADHESIVE RESIN CEMENT OR ESTHETIC RESIN CEMENT</b>  <b>3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus Adhesive (3M ESPE);</b> <b>Calibra with Prime and Bond NT (DENTSPLY Caulk);</b> <b>Clearfil Esthetic Cement with Clearfil DC Bond (Kuraray America);</b> <b>Multilink Automix with A&amp;B Primer (Ivoclar Vivadent);</b> <b>NX3 with OptiBond Solo Plus (Kerr Corp.)</b>
<b>High Leucite</b> <i>Finesse (DENTSPLY Ceramco);</i> <i>HDI7 CAM Blocks (Benco Dental);</i> <i>IPS Empress (Ivoclar Vivadent);</i> <i>IPS Empress CAD (Ivoclar Vivadent);</i> <i>OPC (Pentron Ceramics)</i>	Inlays, Onlays, Crowns, Veneers  <b>(excluding 2nd molar crowns)</b>	Bond, then resin cement	Same as above	Same as above
<b>Lithium Disilicate</b> <i>3G (Pentron Ceramics);</i> <i>IPS e.max Press (Ivoclar Vivadent);</i> <i>IPS e.max CAD (Ivoclar Vivadent)</i>	Inlays, Onlays, Anterior crowns, Posterior crowns, 3-unit bridges	Bond, then resin cement	Same as above  <b>OR</b> <ol style="list-style-type: none"> <li>1. Use self-adhesive resin cement</li> <li>2. Clean tooth thoroughly. Dry-do not over dry. No etching or bonding.</li> </ol>	Same as above  <b>OR</b>  <b>SELF-ADHESIVE RESIN CEMENT</b>  <b>3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement (3M ESPE);</b> <b>Breeze Self-Adhesive Resin Cement (Pentron Clinical Technologies);</b> <b>G-CEM (GC America);</b> <b>Maxcem Elite (Kerr Corp.);</b> <b>seT [SDI (North America), Inc.]</b>
<b>Alumina</b> <i>In-Ceram ALUMINA (Vident);</i> <i>Procera (Nobel Biocare)</i>	Anterior crowns, Posterior crowns, 3-unit bridges	Cement	<ol style="list-style-type: none"> <li>1. Use self-adhesive resin cement</li> <li>2. Clean tooth thoroughly. Dry-do not over dry. No etching or bonding.</li> </ol>	<b>SELF-ADHESIVE RESIN CEMENT</b> Same as above
<b>Zirconia</b> <i>Crystal (Dental Laboratory Milling Supplies);</i> <i>IPS e.max ZirCAD (Ivoclar Vivadent);</i> <i>Lava Crowns &amp; Bridges (3M ESPE)</i>	Anterior crowns, Posterior crowns, 3 - 6-unit bridges, Maryland bridges, Implant abutments	Cement <b>(Good retention cases)</b>	Same as above	Same as above

		Bond <b>(Poor retention cases)</b>	<b>Tooth Surface:</b> 1. Apply dual-cured bonding agent <b>Ceramic Internal Surface:</b> 2. Apply ceramic primer 3. Dry 4. Cement with dual-cured resin cement	<u>Bonding Agent</u> <b>Clearfil DC Bond</b> <i>(Kuraray America)</i>  <b>Multilink A&amp;B Primer</b> <i>(Ivoclar Vivadent)</i>	<u>Ceramic Primer</u> <b>Clearfil Ceramic Primer</b> <i>(Kuraray America)</i>  <b>Metal-Zirconia Primer</b> <i>(Ivoclar Vivadent)</i>	<u>Cement</u> <b>Clearfil Esthetic Cement</b> <i>(Kuraray America)</i>  <b>Multilink Automix</b> <i>(Ivoclar Vivadent)</i>
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