


# Cement Selection Guide

Type of Ceramic	Type of Restoration	Bonded or Cemented	Cementation Protocol	Suggested Cements		
<p><b>Feldspathic</b></p> <p>-CEREC Bloc (Sirona) -VITABLOCS (VITA)</p>	Inlays, Onlays, Crowns, Veneers (excluding 2nd molar crowns)	Bond, then Resin the cement	<p><b>Tooth Surface:</b></p> <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> <p><b>Ceramic Internal Surface:</b></p> <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 cement</li> </ol>	<p>-3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus (3M ESPE) -Calibra with Prime and Bond NT (DENTSPLY Caulk) -Multilink Automix (Ivoclar Vivadent) -NX3 with OptiBond Solo Plus (Kerr Corp) -Variolink II with ExcITE (Ivoclar Vivadent)</p>		
<p><b>High Leucite</b></p> <p>-Authentic (Jensen Industries) -Avantè (Pentron Ceramics) -Cerpress SL (Leach and Dillon) -Creation CP (Jensen Industries) -Finesse All-Ceramic (DENTSPLY Ceramco) -HD17 CAM Blocks (Benco Dental) -IPS Empress (Ivoclar Vivadent) -IPS Empress CAD (Ivoclar Vivadent) -Luminesse Pressable Porcelain (Talladium) -OPC (Pentron Ceramics) -Paradigm C (3M ESPE)</p>	Inlays, Onlays, Crowns, Veneers (excluding 2nd molar crowns)	Bond, then Resin the cement	<p><b>Tooth Surface:</b></p> <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> <p><b>Ceramic Internal Surface:</b></p> <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 cement</li> </ol>	<p>-3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus (3M ESPE) -Calibra with Prime and Bond NT (DENTSPLY Caulk) -Multilink Automix (Ivoclar Vivadent) -NX3 with OptiBond Solo Plus (Kerr Corp) -Variolink II with ExcITE (Ivoclar Vivadent)</p>		
<p><b>Lithium Disilicate</b></p> <p>-3G (Pentron Ceramics) -IPS e.max Press (Ivoclar Vivadent) -IPS e. max CAD (Ivoclar Vivadent)</p>	Anterior and Posterior crowns, 3 unit bridges up to 2nd bicuspid	Bond, then Resin the cement	<p><b>Tooth Surface:</b></p> <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> <p><b>Ceramic Internal Surface:</b></p> <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 cement</li> </ol> <p><b>OR</b></p> <ol style="list-style-type: none"> <li>1. Use self-adhesive resin cement</li> </ol>	<p>-3M ESPE RelyX ARC Adhesive Resin Cement (3M ESPE) -3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus Adhesive (3M ESPE) -Calibra with Prime and Bond NT (DENTSPLY Caulk) -Linkmax (GC America) -Multilink Automix (Ivoclar Vivadent) -NX3 with OptiBond Solo Plus (Kerr Corp.) -Panavia F 2.0 (Kuraray America) -Variolink II with ExcITE (Ivoclar Vivadent)</p> <p><b>OR</b></p> <p>-3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement (3M ESPE) -G-CEM (GC America) -Maxcem Elite (Kerr Corp.) -SMARTCEM 2 (DENTSPLY Caulk) -seT (SDI North America, Inc.)</p>		
<p><b>Alumina</b></p> <p>-In-Ceram ALUMINA (Vident) -Procera (Nobel Biocare)</p>	Anterior and Posterior crowns, 3-unit bridges	Cement	No etching or bonding. Use a self-adhesive resin cement, resin-modified glass ionomer cement, or traditional C&B cement.	<p>-3M ESPE DURELON (3M ESPE) -3M ESPE RelyX ARC Adhesive Resin Cement (3M ESPE) -3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement (3M ESPE) -Breeze Self-Adhesive Resin Cement (Pentron Clinical Technologies) -G-CEM (GC America) -GC Fuji Plus (GC America) -Maxcem Elite (Kerr Corp.) -Multilink Automix (Ivoclar Vivadent)</p>		
<p><b>Zirconia</b></p> <p>-CERCON (DENTSPLY Ceramco) -EVEREST (KaVo) -IPS e. ZirCAD (Ivoclar Vivadent) -LAVA (3M ESPE) -Procera (Nobel Biocare) -ZENO (Wieland)</p>	Anterior and Posterior crowns, 3 - 6 Unit Bridges Implants Maryland bridges	Cement (Good retention cases)	No etching or bonding. Use a self-adhesive resin cement, resin-modified glass ionomer cement, or traditional C&B cement.	<p>-3M ESPE Durelon (3M ESPE) -3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement (3M ESPE) -G-CEM (GC America) -GC Fuji Plus (GC America) -Maxcem Elite (Kerr Corp.) -SMARTCEM 2 (DENTSPLY Caulk) -seT (SDI North America, Inc.)</p>		
		Bond (Poor retention cases)	<p><b>Tooth Surface:</b></p> <ol style="list-style-type: none"> <li>1. Apply dual-cure bonding agent</li> </ol> <p><b>Ceramic Internal Surface:</b></p> <ol style="list-style-type: none"> <li>2. Apply Primer</li> <li>3. Cement with Dual-cure resin cement</li> </ol>	<p><b>Self-Etch Primer/Adhesive</b></p>	<p><b>Ceramic Primer</b></p>	<p><b>Cement</b></p>
				<p>Clearfil DC Bond (Kuraray America)</p>	<p>Clearfil Ceramic Primer (Kuraray America)</p>	<p>Clearfil Esthetic Cement (Kuraray America)</p>
				<p>Multilink A&amp;B Primer (Ivoclar Vivadent)</p>	<p>Metal-Zirconia Primer (Ivoclar Vivadent)</p>	<p>Multilink Automix (Ivoclar Vivadent)</p>