

# Cement Selection Guide

Type of Ceramic	Type of Restoration	Bonded or Cemented	Cementation Protocol	Suggested Cements
<b>Feldspathic</b> <i>CEREC Bloc (Sirona); VITABLOCS (VITA)</i>	Inlays, Onlays, Crowns, Veneers (excluding 2 <sup>nd</sup> molar crowns)	Bond, then resin cement	<b>Tooth Surface:</b> 1. Etch with phosphoric acid 2. Rinse 3. Apply bonding agent (4 <sup>th</sup> - or 5 <sup>th</sup> - generation)  <b>Ceramic Internal Surface:</b> 4. Etch with HF at lab 5. Silanate chairside 6. Cement with light-cure or dual-cure cement	<b>ADHESIVE RESIN CEMENT OR ESTHETIC RESIN CEMENT</b>  <i>3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus Adhesive (3M ESPE); Calibra with Prime and Bond NT (DENTSPLY Caulk); Clearfil Esthetic Cement with Clearfil DC Bond (Kuraray America); Multilink Automix (Ivoclar Vivadent); NX3 with OptiBond Solo Plus (Kerr Corp.)</i>
<b>High Leucite</b> <i>Finesse All-Ceramic (DENTSPLY Ceramco); HD17 CAM Blocks (Benco Dental); IPS Empress (Ivoclar Vivadent); IPS Empress CAD (Ivoclar Vivadent); OPC (Pentron Ceramics)</i>	Inlays, Onlays, Crowns, Veneers (excluding 2 <sup>nd</sup> molar crowns)	Bond, then resin cement	Same as above	Same as above
<b>Lithium Disilicate</b> <i>3G (Pentron Ceramics); IPS e.max Press (Ivoclar Vivadent); IPS e.max CAD (Ivoclar Vivadent)</i>	Anterior and Posterior crowns, 3 unit bridges up to 2 <sup>nd</sup> bicuspid	Bond, then resin cement	Same as above <b>OR</b> 1. Use self-adhesive resin cement	Same as above <b>OR</b> <b>SELF-ADHESIVE RESIN CEMENT</b>  <i>3M ESPE RelyX Unicem Self-Adhesive Universal Resin Cement (3M ESPE); G-CEM (GC America); Maxcem Elite (Kerr Corp.); seT [SDI (North America), Inc.]</i>
<b>Alumina</b> <i>In-Ceram ALUMINA (Vident); Procera (Nobel Biocare)</i>	Anterior and Posterior crowns, 3-unit bridges	Cement	Clean tooth thoroughly. Dry-do not over dry. No etching or bonding. Use a self-adhesive resin cement, resin-modified glass ionomer cement.	<i>3M ESPE RelyX Luting Plus (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.); seT [SDI (North America), Inc.]</i>
<b>Zirconia</b> <i>CERCON (DENTSPLY Ceramco); EVEREST (KaVo); IPS e. ZirCAD (Ivoclar Vivadent); LAVA (3M ESPE)</i>	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.	Same as above
		Bond (Poor retention cases)	<b>Tooth Surface:</b> 1. Apply dual-cure bonding agent <b>Ceramic Internal Surface:</b> 2. Apply primer 3. Cement with dual-cure resin cement	<b>Self-Etch Primer/Adhesive</b> <i>Clearfil DC Bond (Kuraray America)</i>  <i>Multilink A&amp;B Primer (Ivoclar Vivadent)</i>  <b>Ceramic Primer</b> <i>Clearfil Ceramic Primer (Kuraray America)</i>  <i>Metal-Zirconia Primer (Ivoclar Vivadent)</i>  <b>Cement</b> <i>Clearfil Esthetic Cement (Kuraray America)</i>  <i>Multilink Automix (Ivoclar Vivadent)</i>