

Cement Selection Guide

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Type of Ceramic	Type of Restoration	Bonded or Cemented	Cementation Protocol	Suggested Cements									
Feldspathic <i>CEREC Bloc (Sirona); VITABLOCS (VITA)</i>	Inlays, Onlays, Crowns, Veneers (excluding 2 nd molar crowns)	Bond, then resin cement	Tooth Surface: 1. Etch with phosphoric acid 2. Rinse 3. Apply bonding agent (4 th - or 5 th - generation) Ceramic Internal Surface: 4. Etch with HF at lab 5. Silanate chairside 6. Cement with light-cure or dual-cure cement	<i>3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus Adhesive (3M ESPE); Calibra with Prime and Bond NT (DENTSPLY Caulk); NX3 with OptiBond Solo Plus (Kerr Corp.); Variolink II with AdheSE (Ivoclar Vivadent)</i>									
High Leucite <i>Authentic (Jensen Industries); Avantè (Pentron Ceramics); Cerpress SL (Leach and Dillon); Creation CP (Jensen Industries); Finesse All-Ceramic (DENTSPLY Ceramco); IPS Empress (Ivoclar Vivadent); IPS Empress CAD (Ivoclar Vivadent); Luminesse Pressable Porcelain (Talladium); OPC (Pentron Ceramics)</i>	Inlays, Onlays, Crowns, Veneers (excluding 2 nd molar crowns)	Bond, then resin cement	Tooth Surface: 1. Etch with phosphoric acid 2. Rinse 3. Apply bonding agent (4 th - or 5 th - generation) Ceramic Internal Surface: 4. Etch with HF at lab 5. Silanate chairside 6. Cement with light-cure or dual-cure cement	<i>3M ESPE RelyX Veneer Cement with 3M ESPE Adper Single Bond Plus Adhesive (3M ESPE); Calibra with Prime and Bond NT (DENTSPLY Caulk); NX3 with OptiBond Solo Plus (Kerr Corp.); Variolink II with AdheSE (Ivoclar Vivadent)</i>									
Lithium Disilicate <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 nd bicuspid	Bond, then resin cement	Tooth Surface: 1. Etch with phosphoric acid 2. Rinse 3. Apply bonding agent (4 th - or 5 th - generation) Ceramic Internal Surface: 4. Etch with HF at lab 5. Silanate chairside 6. Cement with light-cure or dual-cure cement OR 1. Use self-adhesive resin cement	<i>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 AdheSE (Ivoclar Vivadent)</i> OR <i>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.)</i>									
Alumina <i>In-Ceram ALUMINA (Vident); NobelRondo Press (Nobel Biocare); NobelRondo Press Alumina (Nobel Biocare); Procera (Nobel Biocare)</i>	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.	<i>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.)</i>									
Zirconia <i>CERCON (DENTSPLY Ceramco); EVEREST (KaVo); IPS e.ZirCAD (Ivoclar Vivadent); LAVA (3M ESPE); Procera (Nobel Biocare); ZENO (Wieland);</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, or traditional C&B cement.	<i>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.)</i>									
		Bond (Poor retention cases)	Tooth Surface: 1. Apply dual-cure bonding agent Ceramic Internal Surface: 2. Apply primer 3. Cement with dual-cure resin cement	<table border="0"> <tr> <td>Bonding Agent</td> <td>Primer</td> <td>Cement</td> </tr> <tr> <td><i>Clearfil DC Bond (Kuraray America)</i></td> <td><i>Clearfil Ceramic Primer (Kuraray America)</i></td> <td><i>Clearfil Esthetic Cement (Kuraray America)</i></td> </tr> <tr> <td><i>Excite (Ivoclar Vivadent)</i></td> <td><i>Metal-Zirconia Primer (Ivoclar Vivadent)</i></td> <td><i>Multilink Automix (Ivoclar Vivadent)</i></td> </tr> </table>	Bonding Agent	Primer	Cement	<i>Clearfil DC Bond (Kuraray America)</i>	<i>Clearfil Ceramic Primer (Kuraray America)</i>	<i>Clearfil Esthetic Cement (Kuraray America)</i>	<i>Excite (Ivoclar Vivadent)</i>	<i>Metal-Zirconia Primer (Ivoclar Vivadent)</i>	<i>Multilink Automix (Ivoclar Vivadent)</i>
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