

| 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); Multilink Automix (Ivoclar Vivadent); NX3 with OptiBond Solo Plus (Kerr Corp.); Variolink II with ExcITE (Ivoclar Vivadent)</i> |
| High Leucite <i>Authentic (Jensen Industries); Avante (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)</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); Multilink Automix (Ivoclar Vivadent); NX3 with OptiBond Solo Plus (Kerr Corp.); Variolink II with ExcITE (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 ExcITE (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); 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.); Multilink Automix (Ivoclar Vivadent)</i> |
| Zirconia <i>BruzZir (Glidewell); CERCON (DENTSPLY Ceramco); Crystal HS NexxZr (SAGEMAX); 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 | Self-Etch Primer/Adhesive <i>Clearfil DC Bond (Kuraray America)</i> Ceramic Primer <i>Metal-Zirconia Primer (Ivoclar Vivadent)</i> Cement <i>Clearfil Esthetic Cement (Kuraray America)</i> <i>Multilink Automix (Ivoclar Vivadent)</i> |