

All-Ceramic Cementation Guide

Products	Materials	Indications	Cementation	Benefits
Element-Z (Milled Full-Contour Zirconia)	Yttrium Stabilized Zirconia All Vita Shades (1,465 MPa)	Anterior/Posterior Crowns, Bridges up to 2 pontic screw-retained crowns/bridges, cement retained implant crowns/bridges	Resin-Modified Glass Ionomer, Self Adhesive Resin	Strongest all ceramic crown on the market. Low Cost. Extreme fracture resistance.
Ultra-Z Esthetic (Milled Full-Contour Zirconia)	Yttrium Stabilized Zirconia (650 MPa)	Anterior/Posterior Crowns, Bridges up to 3 units with 1 pontic, Screw-Retained crowns, cement retained implant crowns/bridges	Resin-Modified Glass Ionomer, Self Adhesive Resin	Highly esthetic restorative material with translucency similar to natural teeth and e.max, but stronger.
Element-Z Lingual (Full Contour Zirconia with Labial Cutback)	Yttrium Stabilized Zirconia with e.max porcelain labial	Anterior/Posterior Crowns, Bridges up to 2 consecutive pontics	Resin-Modified Glass Ionomer, Self Adhesive Resin	Improved strength and fracture resistance with Zirconia Occlusal/Lingual. Maintain maximum esthetic with porcelain labial.
Forte YZr Zirconia/Lava™ Zirconia (Porc. Fused to Zirconia Occlusal/ Lingual)	Yttrium Stabilized Zirconia with full coverage e.max porcelain	Anterior/Posterior Crowns, Bridges with 1 pontic	Resin-Modified Glass Ionomer, Self Adhesive Resin	Enhanced esthetics of veneering porcelain, Ability to block out cast posts or dark preps, Longer span bridge capabilities in the esthetic zone
IPS e.Max	Lithium Disilicate Glass Ceramic (400 MPa)	Anterior & Posterior Crowns, Anterior 3 unit bridges, Screw-Retained Crowns, Crowns over Custom Abutments, Inlays & Onlays Veneers	Resin-Modified Glass Ionomer, Self Adhesive Bonding or Resin Bonding	Highly esthetic. 2x strength of Empress. Cementable. Affordable. Eliminates risk of porcelain fracturing from substructure.
Lava™ Ultimate	Resin Nano Ceramic 8 Vita Shades (200 MPa)	Inlays/Onlay, Veneers, Anterior/Posterior Crowns	Resin Bonding	Longer span bridge capabilities in the esthetic zone
IPS Empress Esthetic™	Leucite-Reinforced Glass Ceramic (160 MPa)	Inlays/Onlays, Anterior Crowns, Veneers	Resin Bonding	The most esthetic all ceramic material available. The most translucent option for anterior cases.
CAD/ CAM Oral Temp	Polymethyl Methacrylate (160 MPa)	Temporary Crowns/ Bridges	Temporary Cementation	Long-term temporary restorations. High biocompatibility. Add fiber reinforcement when needed.

*RMGI-Resin Modified Glass Ionomer

Recommended Cements:

Resin-Modified Glass Ionomer – Crowns/Bridges (not veneers)

- FugicEM 2, GC America
- RelyX Luting Plus, 3M ESPE
- Nexus RMGI, Kerr

Self-Adhesive Resin – Crowns/Bridges (not veneers)

- Panavia SA Cement, Kuraray
- RelyX Unicem 2, 3M ESPE
- Max Cem Elite, Kerr

Resin Bonding- Veneers

- Panavia V5 Cement
- Variolink Veneer, Ivoclar Vivadent
- RelyX Veneer, 3M ESPE
- Calibra Esthetic Resin, Dentsply Caulk

*** In general, lithium disilicate restorations are etched before they are placed. Before restorations are placed with adhesive or self-adhesive cementation materials, they should be conditioned with Silane.

*** **Do NOT** etch Zirconia Restorations.

Sandblast and/or use a ceramic primer.



Komet Lithium Disilicate & Solid Zirconia Adjustment Kit

Available at Oral Arts Dental Laboratory