

Bonding Protocol

Recommended for Non-Retentive Preps (< 3 mm height, walls with excessive taper)

Restoration Preparation		Tooth Preparation	
Step 1	Confirm fit	Step 1	Etch: Phosphoric Acid
Step 2	Glidewell BruxZir restorations are pre-roughened. If purchased elsewhere or fabricated chairside, roughen intaglio surface (air particulate abrade, 30–60 micron Alumina Oxide)	Step 2	Clean, Rinse and Isolate
Step 3	Decontaminate intaglio surface: Air particle abrade, Ivoclean® or Sodium Hypochlorite	Step 3	Desensitizer (optional) Keep dentin moist
Step 4	Prime intaglio surface with Zirconia / MDP primer: Monobond® Plus, Z-Prime™ Plus, Scotchbond™ Universal	Step 4	Apply bonding agent: Scotchbond, Optibond™, Adhese® Universal
Step 5	Resin Cement: RelyX™ Ultimate or similar		


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    graph LR
      A[BruxZir Zirconia] --> B[Restoration]
      A --> C[Tooth]
      B --> D[Air Abrade (Check Lab)]
      D --> E[Try-In]
      E --> F[Decontaminate: Air Abrade, Ivoclean®, Sodium Hypochlorite]
      F --> G[Zirconia/MDP Primer]
      C --> H[Etch]
      H --> I[Clean, Rinse and Dry Enamel Leave Dentin Moist]
      I --> J[Desensitizer]
      J --> K[Bonding Agent]
  
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Cementation Protocol

Recommended for Retentive Preps (> 3 mm height, 8–10 degree tapered walls)

Restoration Preparation		Tooth Preparation	
Step 1	Confirm fit	Step 1	Clean, Rinse and Isolate
Step 2	Glidewell BruxZir restorations are pre-roughened. If purchased elsewhere or fabricated chairside, roughen intaglio surface (air particulate abrade, 30–60 micron Alumina Oxide)	Step 2	Desensitizer (optional) Keep dentin moist
Step 3	Decontaminate intaglio surface: Air particle abrade, Ivoclean or Sodium Hypochlorite		
Final Step	Conventional Cement: RMGI or SARC		


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    graph LR
      A[BruxZir Zirconia] --> B[Restoration]
      A --> C[Tooth]
      B --> D[Air Abrade (Check Lab)]
      D --> E[Try-In]
      E --> F[Clean: Air Abrade, Alcohol, Ultrasonic or Ivoclean® *No Phosphoric Acid]
      F --> G[RMGI or SARC]
      C --> H[Clean, Rinse and Dry Enamel Leave Dentin Moist]
      H --> I[Desensitizer]
  
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