

# Pre-Treatment Protocols for Indirect Restorations

## 3M™ ESPE™ RelyX™ Ultimate

Adhesive Resin Cement

Material Type	Pre-treatment of Indirect Restoration	Examples
<b>Metal / Metal Based</b>		
Metal, PFM	<ol style="list-style-type: none"> <li>Sand blast with Aluminum Oxide &lt; 50µm</li> <li>Clean with Alcohol, dry with oil &amp; water free air</li> <li>Apply Scotchbond™ Universal Adhesive (per SBU IFU)</li> </ol>	
<b>Etchable Glass Ceramics</b>		
Feldspathic	<ol style="list-style-type: none"> <li>Etch with HF acid (60secs)</li> <li>Rinse &amp; clean thoroughly ensuring that ALL etching residues are completely removed; e.g: Steam clean <b>OR</b> phosphoric acid 10 secs &amp; 5 mins Ultrasonic clean in distilled water</li> </ol>	
Leucite reinforced	<ol style="list-style-type: none"> <li>Silane Option a) Apply Scotchbond Universal Adhesive (per SBU IFU) <b>OR</b> Option b) Apply any other Silane (per their IFU's)</li> </ol>	IPS Empress™ Esthetic, IPS Empress™ CAD
Lithium Disilicate	<ol style="list-style-type: none"> <li>Etch with HF acid (20secs)</li> <li>Rinse &amp; clean thoroughly ensuring that ALL etching residues are completely removed; e.g: Steam clean <b>OR</b> phosphoric acid 10 secs &amp; 5 mins Ultrasonic clean in distilled water.</li> </ol>	IPS e.max™ CAD, IPS e.max™ Press
Nano-fluorapatite	<ol style="list-style-type: none"> <li>Silane Option a) Apply Scotchbond Universal Adhesive (as per SBU IFU) <b>OR</b> Option b) Apply any other Silane (per their IFU's)</li> </ol>	IPS e.max™ ceram, IPS e.max™ Zirpress
<b>Non - etchable / high strength</b>		
Zirconia Oxide	<p>Option 1</p> <ol style="list-style-type: none"> <li>Sand blast with Aluminum oxide &lt; 50µm</li> <li>Clean with alcohol, dry with oil &amp; water free air</li> <li>Apply Scotchbond Universal Adhesive (per SBU IFU)</li> </ol>	3M ESPE Lava™, & Lava™ Plus. Cercon™
Aluminum Oxide	<p>Option 2 (Optional)</p> <p>To further optimise adhesion, treat internal surface of restoration with 3M ESPE CoJet™ (in surgery via Microetcher) followed by a silane pre-treatment with Scotchbond Universal Adhesive (SBU) or alternative Silane option.</p>	Procera Crown™, InCeram™
<b>Composite</b>		
Composite	<ol style="list-style-type: none"> <li>Sand blast with Aluminum oxide &lt;50µm, <b>OR</b> 3M ESPE CoJet™ Sand.</li> <li>Clean with alcohol &amp; dry with oil &amp; water free air</li> <li>Silane Option a) Apply Scotchbond Universal Adhesive (as per IFU) <b>OR</b> Option b) Apply any other silane (per their IFU's)</li> </ol>	3M ESPE Sinfony™ Artglass™, Belleglass™
<b>Resin Nano Ceramic</b>		
Resin Nano Ceramic	<ol style="list-style-type: none"> <li>Sand blast with Aluminum oxide &lt;50µm, <b>OR</b> 3M ESPE CoJet™ Sand.</li> <li>Clean with alcohol &amp; dry with oil &amp; water free air</li> <li>Silane Option a) Apply Scotchbond Universal Adhesive (as per IFU) <b>OR</b> Option b) Apply any other silane (per their IFU's)</li> </ol>	Lava™ Ultimate
<b>Glass Fibre Reinforced Posts</b>		
Glass Fibre Reinforced Posts	<ol style="list-style-type: none"> <li>Clean post with alcohol, air dry</li> <li>Apply silane (Scotchbond Universal Adhesive or other silane option) according to post manufacturers instructions for use.</li> </ol> <p><b>NOTE:</b> RelyX Fiber Post does not require silane pretreatment if cemented with RelyX Unicem</p>	3M ESPE RelyX™ Fiber Post, DT Light Post™, Para Post™ Fiber Lux, etc

For each indication –  
the ideal cement



	<b>RelyX™ Ultimate</b> Adhesive Resin Cement	<b>RelyX™ Unicem</b> <b>RelyX™ Unicem 2</b> Self-Adhesive Resin Cement	<b>RelyX™ Luting Plus</b> Resin Modified Glass Ionomer Cement	<b>RelyX™ Veneer</b> Veneer Cement
<b>Metal / Metal based</b>				
Inlays / Onlays	+	++	+	-
Crowns / Bridges	+	++	++	-
Endodontic Posts	+	++	++	-
Maryland Bridges	++	+	-	-
On Implant Abutments	+	++	++	-
<b>Glass Ceramics (incl. Li. Disilicate) (e.g. e.max, VITA Mark II, IPS Empress 2)</b>				
Inlays / Onlays / Table Tops	++	+	-	-
Crowns / Bridges	++	++	-	-
Veneers	+	-	-	++
On Implant Abutments	+	+	-	-
<b>Oxide Ceramics (e.g. Lava™ Plus, Brux Zir, Procera)</b>				
Inlays / Onlays	++	++	+	-
Crowns / Bridges	+	++	+	-
Endodontic Posts <i>e.g. Cera Post™, CosmoPost™</i>	+	++	+	-
Maryland Bridges	++	+	-	-
On Implant Abutments	+	++	++	-
<b>Resin Nano Ceramics (e.g. Lava™ Ultimate CAD/CAM Restorative)</b>				
Inlays / Onlays	++	-	-	-
Veneers	+	-	-	++
<b>Resin Composites</b>				
Inlays / Onlays	++	+	-	-
Crowns	++	++	-	-
Endodontic Posts <i>e.g. RelyX Fibre Post</i>	+	++	-	-
Veneers	+	-	-	++
On Implant Abutments	++	++	-	-

+++ Highly recommended\*

++ Recommended

- Not indicated

\*Either better performance for this indication or easier handling with equal performance.