

Pre-Treatment Protocol for Indirect Restorations

3M™ ESPE™ RelyX™ Unicem Aplicap 3M™ ESPE™ RelyX™ Unicem 2 Automix Self-Adhesive Resin Cement



Material Type	Pre-treatment of Indirect Restoration	Examples
Metal / Metal Based		
Metal, PFM	<ol style="list-style-type: none"> Sand blast with Aluminum Oxide < 50µm Clean with Alcohol, dry with oil & water free air 	
Etchable Glass Ceramics		
Feldspathic	<ol style="list-style-type: none"> Etch with HF acid (60secs) Rinse thoroughly with water OR preferably <ol style="list-style-type: none"> Steam clean OR phosphoric acid 10 secs & 5 mins Ultrasonic clean in distilled water. Apply Silane (e.g: Scotchbond Universal) 	IPS Empress™ Esthetic, IPS Empress™ CAD
Leucite reinforced		
Lithium Disilicate	<ol style="list-style-type: none"> Etch with HF acid (20secs) Rinse thoroughly with water OR preferably <ol style="list-style-type: none"> Steam clean OR phosphoric acid 10 secs & 5 mins Ultrasonic clean in distilled water Apply Silane (e.g: Scotchbond Universal) 	IPS e.max™ CAD, IPS e.max™ Press
Nano-fluorapatite		IPS e.max™ ceram, IPS e.max™ Zirpress
Non - etchable / high strength		
Zirconia Oxide	Option 1 <ol style="list-style-type: none"> Sand blast with aluminum oxide < 50µm Clean with alcohol, dry with oil & water free air 	3M ESPE Lava™, & Lava™ Plus. Cercon™
Aluminum Oxide	Option 2 (Optional) To further optimise adhesion, pretreat internal surface via microetcher with 3M ESPE CoJet™ sand, followed by a Silane Treatment (e.g: Scotchbond Universal)	Procera™ Crown, InCeram™
Composite		
Composite	<ol style="list-style-type: none"> Sand blast with aluminum oxide < 50µm Clean with alcohol & dry (Surface can also be silane treated, however, this may vary dependent on manufacturer) 	3M ESPE Sinfony™, Artglass™, Belleglass™, etc
Glass Fibre Reinforced Posts		
Glass Fibre Reinforced Posts	<ol style="list-style-type: none"> Clean post with alcohol, air dry Apply silane according to post manufacturers instructions for use. NOTE: RelyX Fiber Post does not require silane pretreatment if cemented with RelyX Unicem 	3M ESPE RelyX™ Fibre Post, DT Light Post™, Para Post™ Fiber Lux, etc

For each indication –
the ideal cement



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