

Restorative Materials

All Ceramic Restorations

Material	Cementation	Advantages	Indications	Preparation Requirements
e.max Press	<ul style="list-style-type: none"> Adhesive Cementation (veneers & inlay/onlays must be adhesively cemented) Conventional Cementation 	<ul style="list-style-type: none"> Aesthetics/Shade Control Strength 400 Mpa Lithium Disilicate High Opacity ingot to cover dark dentin and partially cover metal Marginal Integrity 	<ul style="list-style-type: none"> Full Crowns – anterior or posterior Veneers Inlays Onlays 3 unit bridges in the anterior region OR 3 unit bridges in the premolar region up to the second premolar as the terminal abutment (not indicated for cantilever bridges) 	<ul style="list-style-type: none"> Veneers: .5*-1 mm facial, 1-1.5 incisal Full crowns: 1-1.5 mm facial, lingual and incisal, occlusal 1.5mm Inlay/Onlay: 1- 1.5 mm wide gingival floor, 1.5- 2 mm isthmus width, rounded internal line angles, butt joint margin Pontic span 9 mm in posterior and 11 mm in anterior
e.max to zirconia (e.max ceram hand stacked to zirconia)	<ul style="list-style-type: none"> Conventional Cementation Using glass-ionomer cement, resin cement such as RelyX Unicem Cement by 3M or self curing cement such as Multi Link by Ivoclar 	<ul style="list-style-type: none"> Zirconium core can cover dark dentin with adequate reduction Strength 	<ul style="list-style-type: none"> Full Crowns Bridges (38 mm span) 	<ul style="list-style-type: none"> All restorations: 1.5 – 2 mm facial, lingual, incisal and occlusal, 1 mm shoulder
Zirconia (Full-Contour)**	<ul style="list-style-type: none"> Conventional Cementation 	<ul style="list-style-type: none"> Monolithic with a strength of 1100-1200 MPa 	<ul style="list-style-type: none"> Posterior Full Crowns & Bridges 	<ul style="list-style-type: none"> 1 mm reduction facial, lingual, occlusal and interproximal
Esthetic Full-Contour Zirconia	<ul style="list-style-type: none"> Conventional Cementation 	<ul style="list-style-type: none"> Monolithic with a strength of 750-850 MPa More translucent than traditional FCZ 	<ul style="list-style-type: none"> Anterior & Posterior Full Crowns 3-unit bridges (anterior and posterior) 	<ul style="list-style-type: none"> 1 mm reduction facial, lingual, occlusal and interproximal
Multilayer Esthetic Full-Contour Zirconia	<ul style="list-style-type: none"> Conventional Cementation 	<ul style="list-style-type: none"> Monolithic with a strength of 550-850 MPa Most translucent with shade variation from gingival to incisal 	<ul style="list-style-type: none"> Anterior Crowns 3-unit bridges (anterior and posterior) 	<ul style="list-style-type: none"> 1 mm reduction facial, lingual, occlusal and interproximal

*provided not covering dark dentin **opacious material

Metal Based Restorations

PFM	<ul style="list-style-type: none"> Conventional Cementation 	<ul style="list-style-type: none"> Strength 	<ul style="list-style-type: none"> Full Crowns Bridges 	<ul style="list-style-type: none"> 1 mm reduction facial, lingual, occlusal and interproximal, slight shoulder required for porcelain butt margin
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