Andent
Behind every smile.

Suggested Cementation Options for IPS e.max® and Zirconia Restorations

		Restoration Restorative Material	Veneers IPS e.max®	Inlays/Onlays IPS e.max® Zirconia	Crowns & Bridges IPS e.max® Zirconia
BRAND	**MANUFACTURER**	**CEMENT CATEGORY**			
seT	SDI	Total Etch	Yes	Yes	Yes
Variolink® II	Ivoclar Vivadent	Total Etch	Yes	Yes	Yes
RelyX ARC	3M ESPE	Total Etch	Yes	Yes	Yes
C&B Luting Cement	Bisco	Total Etch	Yes	Yes	Yes
Choice	Bisco	Total Etch	Yes	Yes	Yes
Duo-Link	Bisco	Total Etch	Yes	Yes	Yes
Insure/Insure Lite	Cosmedent	Total Etch	Yes	Yes	Yes
Ultrabond Plus	Denmat	Total Etch	Yes	Yes	Yes
Calibra	Dentsply Caulk	Total Etch	Yes	Yes	Yes
NX3 w/Optibond Solo Plus	Kerr	Total Etch	Yes	Yes	Yes
Clearfil DC	Kuraray	Total Etch	Yes	Yes	Yes
Cement-It	Pentron	Total Etch	Yes	Yes	Yes
Lute-It	Pentron	Total Etch	Yes	Yes	Yes
Variolink® Veneer	Ivoclar Vivadent	Total Etch - Light Cure Only	Yes	*See 2) below	*See 2) below
Choice 2 RelyX Veneer	Bisco	Total Etch - Light Cure Only	Yes	*See 2) below	*See 2) below
	3M ESPE	Total Etch - Light Cure Only	Yes	*See 2) below	*See 2) below
seT PP	SDI	Self Etch	Yes	Yes	Yes
Multilink® Automix	Ivoclar Vivadent	Self Etch	No	Yes	Yes
Panavia F 2.0	Kuraray	Self Etch	No	Yes	Yes
NX3 w/Optibond All-in-One	Kerr	Self Etch	No	Yes	Yes
Panavia 21	Kuraray	Self Etch	No	Yes	Yes
C&B Metabond	Parkell	Self Etch	No	Yes	Yes
SpeedCEM®	Ivoclar Vivadent	Self Adhesive	No	No	Yes
RelyX Unicem	3M ESPE	Self Adhesive	No	No	Yes
BisCem	Bisco	Self Adhesive	No	No	Yes
SmartCem2	Dentsply Caulk	Self Adhesive	No	No	Yes
G-Cem	GC	Self Adhesive	No	No	Yes
Maxcem Elite	Kerr	Self Adhesive	No	No	Yes
Breeze	Pentron	Self Adhesive	No	No	Yes
Clearfil SA	Kuraray	Self Adhesive	No	No	Yes
Riva Luting Plus	SDI	Resin Modified Glass Ionomer	No	No	Yes
RelyX Luting Plus	3M ESPE	Resin Modified Glass Ionomer	No	No	Yes
Infinity Syringeable	Denmat	Resin Modified Glass Ionomer	No	No	Yes
FujiCEM Automix	GC	Resin Modified Glass Ionomer	No	No	Yes
Fuji Plus	GC	Resin Modified Glass Ionomer	No	No	Yes
Riva Luting	SDI	Conventional Glass Ionomer	No	No	Yes
Fuji I	GC	Conventional Glass Ionomer	No	No	Yes
Ketac CEM	3M ESPE	Conventional Glass Ionomer	No	No	Yes

General Guidelines:

1) Dual Cure resin cements with Total Etch adhesives will provide stronger bonds to enamel.
2) Light cure only cements are designed for restorations with less than 2mm in thickness and high translucency (e.g. IPS e.maxCAD® and IPS e.maxPress®). The absence of self- or dual-cure amines eliminate shade shift and provide the highest level of shade stability.
3) Resin cements with Self Etching adhesives will provide strong bonds to dentin and prepared enamel and offer reduced post-operative sensitivity. These systems are excellent for crowns and bridges.
4) Self Adhesive cements and Glass Ionomer cements are indicated for high-strength restorative materials only (e.g. Lithium-disilicate, Zirconia, Metal) and often have lower bond strengths. Resistance form in preparation design is critical to retain restorations (e.g. minimum height of 4mm and a taper of less than 8 degrees). They are easier to use than true adhesive systems and offer reduced post-operative sensitivity.
5) Glass based ceramics (e.g. IPS e.max®) require proper etching and priming to establish adequate bonding.

Preparing for cementation – Glass Ceramics

ZIRCONIA – Cementation		
Material	Zirconium Oxide/Nano-Fluorapatite Glass Ceramic	
Indication	Crowns and bridges	
Cementation method	adhesive	self-adhesive/conventional
Blasting	Cleaning with Al_2O_3 at max. 1 bar	
Etching	–	
Conditioning/Silanization	60 seconds with a universal primer	–
* NOTE: For 100% Monolithic Zirconia and Laminated Zirconia		

IPS e.max®			
Material	Lithium Disilicate Glass-Ceramic		
Indication	Veneers, inlays, onlays, partial crowns	Anterior and posterior crowns	
Cementation method	adhesive	adhesive	self-adhesive/ conventional
Blasting	–		
Etching	20-30 seconds with Etching gel		
Conditioning/Silanization	60 seconds with a universal primer		
* NOTE: For both IPS e.max ® CAD and Press			