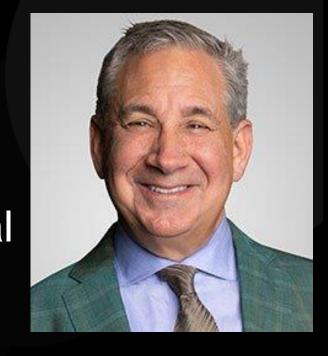


### CATAPULT EDUCATION

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Restoration	Cement Choice	Tooth Preparation	Restoration Preparation
Zirconia	Cement - good retention only	Ensure clean preparation (pumice or scrub)	Air abrade restoration (50-60 μm aluminum oxide, < 2bar), apply RMGI or SARC cement
	Bond - SARC	Ensure clean preparation	Air abrade restoration (≤50 µm aluminum oxide, < 2bar), , apply zirconia primer, apply SARC cement
	Bond - ARC	Ensure clean preparation, etch and/or bonding agent according to manufacturer's instructions	Air abrade restoration (50-60 µm aluminum oxide, < 45 PSI), , apply zirconia primer, apply bonding agent and ARC cement (dual cure)
Lithium Silicate or Disilicate	Bond - SARC	Ensure clean preparation	etch restoration with 5% HF acid etch for 20s, apply silane primer apply SARC cement
	Bond - ARC	Ensure clean preparation, etch and/or bonding agent according to manufacturer's instructions	etch restoration with 5% HF acid etch for 20s, apply silane primer, apply bonding agent, apply ARC cement
Leucite-Reinforced Ceramics	Bond - ARC	Ensure clean preparation, etch and/or bonding agent according to manufacturer's instructions	etch restoration with 9.6% HF acid etch for 1 minute (max 2.5 minutes), apply silane primer, apply bonding agent, apply ARC cement
Hybrid Ceramics	Bond - ARC	Ensure clean preparation, etch and/or bonding agent according to manufacturer's instructions	air abrade restoration with 25-50 µm aluminum oxide (1.5 - 2 bar), apply silane primer for 60 seconds, apply bonding agent and ARC dual cure cement (verify with manufacturer's directions)

		Glass Ionomer or Ceramir		Self Adhesive Resin			
Restoration Type		Cement		Cement		Adhesive Resin Cement	
Full Crown	Zirconia	<b>J</b> *		J		<b>/</b> **	
	Gold or PFM	<b>/</b> *		J		J**	
	Emax or Obsidian			J		J	
	CAMouflage					J	
Veneer	Emax					J	
	Feldspathic Porcelain					J	
Onlay	CAMouflage/Lava Ultimate					J	
	Enamic			J		J	
	Obsidian or Emax			J		J	
Implants		J		J		Not really needed	
	Glass Ionomer or C	Ceramir Cement	Self Adhesiv	ve Resin Cement	Adl	nesive Resin Cement	
	Meron Plu	ıs QM	RelyX Unicem-3M SpeedCEM Plus - Ivoclar			RelyX Ultimate-3M	
	GC Fujicem	Evolve			EZ CEM - Zest		
	*Ceramir -	· Doxa	Maxce	m Elite - Kerr		Bifix QM - Voco	
			Bifix SE - Voco		RelyX Veneer		
VOCO Ceramic Bond and							
Monobond Plus are primers							
that enhance the bond strength							
of the cement to the crown.			THE CEDAMIC	PRIMERS ENHANCE	Thoso	coments require an adhesive	
						cements require an adhesive	
They works on both resin				ngth on the CROWN,		primer for them to work	
cement classifications, BUT has	*Ceramir is not truly a gl		NOT THE TOO	OTH. No additional	prop	erly. Primers will help, but	
no effect on the Glass Ionomer	similar properties. For t	these cements to be	primer/adhes	sive is necessary for	addit	ional adhesive is necessary	
classification. Works on all	successful, the prep mus	t have retention (4-6	these, unless sp	ecifically directed for	inside tl	ne crown and on the tooth for	
types of crown materials.	mm tall with mi	nimal taper)	materia	l or by doctor	the	cement to work properly.	

# Cementation take aways — RMGI and SARC

- RMGI and SARC provide similar bond strengths
- No adhesive necessary
- Bond strengths of 5-20 MPa observed
- Bioactive cements (Ceramir, Activa, etc.) behave similarly to RMGI

# Cementation take aways -

- ARC Provides highest bond strengths.
- Enamel bond (30-40 MPa) > Dentin Bond (18-30 MPa)
- Dentinal bond strength is not enhanced by etching.
- ARC bond strength is dependent upon the adhesive used.



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- Location of the restoration

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