

IVOCLAR VIVADENT ALL CERAMICS

PREPARING FOR CEMENTATION – GLASS CERAMICS

	IPS Empress Esthetic IPS ProCAD		IPS e.max Press		IPS e.max CAD		IPS e.max ZirPress IPS e.max Ceram	
Indication	Inlays, Onlays, Veneers, Anterior + Posterior Crowns		Anterior + Posterior Crowns, 3-unit bridges up to the 2 nd premolar		Anterior + Posterior Crowns		Veneers	
Cementation	Adhesive Cementation	Conventional Cementation	Adhesive Cementation	Conventional Cementation	Adhesive Cementation	Conventional Cementation	Adhesive Cementation	Conventional Cementation
	✓		✓	✓	✓	✓	✓	
Sandblasting	✗	✗	✗		✗		✗	✗
Etching	for 60 sec. with IPS Ceramic Etching Gel		for 20 sec. with IPS Ceramic Etching Gel		for 20 sec. with IPS Ceramic Etching Gel		for 20 sec. with IPS Ceramic Etching Gel	
Conditioning / Silanization	Monobond-S		Monobond-S	✗	Monobond-S	✗	Monobond-S	
Cementation System	Variolink® II Multilink®		Variolink® II Multilink®	Vivaglass® CEM	Variolink® II Multilink®	Vivaglass® CEM	Variolink® Veneer Variolink® II	



Please read the corresponding Instructions for Use

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PREPARING FOR CEMENTATION – ZIRCONIUM OXIDE CERAMICS

Indication	IPS e.max ZirCAD – IPS e.max ZirPress				IPS e.max ZirCAD – IPS e.max Ceram	
	Crowns + bridges w/w.o pressed shoulder		Inlay-retained bridges		Crowns + bridges	
Cementation	Adhesive Cementation	Conventional Cementation	Adhesive Cementation	Conventional Cementation	Adhesive Cementation	Conventional Cementation
	✓	✓	✓		✓	✓
Sandblasting	Cleaning with max. 1 bar Al ₂ O ₃		✗	✗	Cleaning with max 1 bar Al ₂ O ₃	
Etching	✗		for 20 sec. with IPS Ceramic Etching Gel		✗	
Conditioning / Silanization	Metal/Zirconia Primer	✗	Monobond-S		Metal/Zirconia Primer	✗
Cementation System	Multilink®	Vivaglass® CEM	Multilink®		Multilink®	Vivaglass® CEM



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Clinical Case Guide

Cement Procedures							
	STEP 1		STEP 2		STEP 3	STEP 4	STEP 5
	IPS e.max Restoration Conditioning		Tooth Conditioning		Cement	Clean Up	Final Cure
	Etching Restoration	Priming Restoration	Etching Tooth	Priming Tooth			View
	Apply IPS Ceramic Etching Gel (5% HF Acid) for 20 seconds to bonding surface of the restoration. Rinse thoroughly and air dry.	Apply Monobond Plus Universal Primer to the bonding surface of the restoration. Allow to react for 60 sec. Completely air dry.	Apply Total Etch 37% Phosphoric Acid etching gel. (15 secs on dentin, 30 secs on enamel) Rinse and dry leaving prepared surface moist.	Apply bonding agent to moist preparation	Mix and dispense cement into restoration	After seating, light cure each quarter surface for 1-2 sec. The cement will achieve a gel-like consistency for easy clean-up.	Optional: Utilize Liquid Strip (glycerin gel) along the margins to eliminate oxygen-inhibition layer. Light cure each side on high power for 20 sec.
Variolink® III Variolink® Veneer							
			<i>Scrub Excite F on preparation for 10 seconds. Thin with air and light cure.</i>				
Multilink® Automix			Not Required				
				<i>Scrub self-etching Primer 1:1 mixture into the prepared surface. (30 sec. on enamel and 15 sec. on dentin) Air dry</i>			
SpeedCEM®			Not Required				

Clinical Recommendation

Efficient rotary cutting instruments for high-strength ceramics

- When removing a high-strength ceramic restoration, proper bur selection improves the efficiency of the procedure, reducing the time needed for completion.
- The use of an electric handpiece is preferable due to its superior cutting efficiency and reduced heat generation.
- Regardless of the cutting instrument or the handpiece used, copious water irrigation is paramount when cutting through ceramic materials. Water acts as a lubricant, improves cutting efficiency and prevents heat rise in the restoration and the tooth underneath.

MANUFACTURER	BUR	GRIT SIZE	FOOTBALL SHAPE FOR OCCLUSAL REDUCTION	ROUND SHAPE FOR ENDODONTIC ACCESS	CYLINDER SHAPE FOR CROWN REMOVAL
Komet	ZR Diamond	Coarse 126µm	Excellent (ZR6379.314.023)	Excellent (ZR6801.314.014)	Excellent (ZR6856.314.025)
Brasseler USA	DuraCut	Coarse 151µm	Excellent (6368DC.31.023)	Very good (6801DC.31.023)	Very good (6856DC.31.018)
Dentalree	Crosstech	Coarse 150µm	Excellent (368.031.023)	Very good (801.31.018)	Good (856.31.018)
SS White	Great White Z		Excellent (GWZ 379-023)	Very good (GWZ 801-018)	Good (GWZ 856-018)

Tested at applied testing facility, Ivoclar Vivadent Amherst

100% CUSTOMER SATISFACTION
GUARANTEED!

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