

# **Indirect Cementation Solutions**

When choosing the proper dental cement, it is critical to consider the material that is being used for the indirect restoration. Below is a summary of factors to consider for various substrates and restorative conditions.

### **Dental Substrate** Considerations FELDSPATHIC CERAMIC **METAL RESTORATIONS ZIRCONIA OR ALUMINA** COMPOSITE Self-cure and dual-cure adhesive resin Dual-cure adhesive resin cements are A total-etch or, a universal adhesive Dual-cure resin cements are system in the total-etch technique, along cements are ideal where little or no light recommended as only some light can recommended as light may be can be transmitted through the restorative transmitted through the restorative with a resin cement will yield the best attenuated as it transmits through the material material results. restorative material. • Dual-cure cements are ideal for crowns, . The cement you use should have a • HF etching & silanization of the ceramic · Any resin cement can be used as strong affinity to metal. If not, use a bridges and inlays/onlays. surface is required. they all have a strong affinity to resin separate metal/zirconia primer (i.e. composite. · Creating a hydrophobic, resin-loving, • A total-etch or, a universal adhesive Z-Prime Plus). surface is imperative. This can be system in the total-etch technique, is · A dental adhesive in the self-etch, · Self-adhesive cements are a good done by applying a primer such as recommended for treatment of the tooth selective-etch or total-etch technique Z-PRIME<sup>™</sup> Plus or, by applying a choice for retentive preparations. surface. can be used for a full coverage dental adhesive that contains MDP restoration. · A self-adhesive resin cement containing Light-Cure resin cements are ideal for (All-Bond Universal). Application of a the MDP monomer will have a higher dental veneers as they will prevent · For inlays/onlays, a selective-etch or primer significantly enhances the bond potential discoloration (shade shifting) affinity to metal (i.e. TheraCem). total-etch technique is recommended. strength between the resin cement and over time and will provide maximum the dental substrate. strength. · If using an MDP containing self-A hema-free bonding resin (Porcelain adhesive resin cement (i.e. TheraCem), Bonding Resin) is recommended for no primer is required. the internal surface of the veneer which will also aid in preventing discoloration over time. A dual-cure resin cement is

## **Restorative** Considerations

### **MARYLAND BRIDGES**

A total-etch or, a universal adhesive system in the total-etch technique. and a resin cement should be used as the retention of the bridge is highly dependent upon achieving a maximum bond.

· Dual-cure or self-cure resin cements are recommended as light transmission is limited.

### A total-etch or, a universal adhesive system in the total-etch technique, and a resin cement should be used as the retention is highly dependent upon achieving a maximum bond between the tooth surface and restorative material.

**SHORT CROWNS** 

· Priming the indirect restorative material is mandatory.

## POSTS

recommended for crowns, bridges,

inlays/onlays.

Dual-cure or self-cure cements and/ or dual-cure core build-up materials (i.e. Core-Flo DC/Core-Flo DC Lite) are recommended for metal posts as no light can be transmitted into the canal

- Dual-cured resin cements are acceptable for light-transmitting fiber posts.
- · Self-adhesive resin cements are a good option for both fiber and metal posts as it simplifies the bonding/cementation process by eliminating the need for bonding in the canal.'
- A self-adhesive resin cement containing the MDP monomer will have a higher affinity to metal (i.e TheraCem).

\*Post length must be a minimum of 8mm or bonding is recommended.

## VENEERS

A total-etch or, a universal adhesive system in the total-etch technique. and a resin cement should be used as the retention of the veneer is highly dependent upon achieving a maximum bond to the enamel.

- · A light-cured cement (i.e. Choice 2) will aid in preventing discoloration (shade shifting) over time.
- · A hema-free bonding resin is recommended on the internal surface of the veneer.
- After HF etching, a pure silane should be used to prime the ceramic surface. It is not recommended to use a silanecontaining dental adhesive.

CULIOU

When should a
<b>CROWN</b> restoration
be BONDED?

P	reparatic	By Dr. Ron Jackson				
		<b>8</b> °	10°	12°	16°	<b>20°</b>
	4mm	Conventional or Self-Adhesive Cement (eg. TheraCem)	Conventional or Self-Adhesive Cement (eg. TheraCem)	Conventional or Self-Adhesive Cement (eg. TheraCem)	Self-Adhesive Cement (eg. TheraCem)	Self-Adhesive Cement (eg. TheraCem)
	3mm	Conventional or Self-Adhesive Cement (eg. TheraCem)	Conventional or Self-Adhesive Cement (eg. TheraCem)	Self-Adhesive Cement (eg. TheraCem)	Self-Adhesive Cement (eg. TheraCem)	<b>Bond</b> (eg. All-Bond Universal + Duo-Link Universal )
	2mm	<b>Bond</b> (eg. All-Bond Universal + Duo-Link Universal )	<b>Bond</b> (eg. All-Bond Universal + Duo-Link Universal )	<b>Bond</b> (eg. All-Bond Universal + Duo-Link Universal )	Crown Lengthen	Crown Lengthen

# **CEMENT** Selection Guide

BISCO offers the latest technology in cementation and keeps it simple for the clinician by providing a cement line which covers every Dentist's indirect restorative needs.

