

## DUAL-CURE COMPOSITE LUTING SYSTEM

### Directions:

1. Select luting composite according to shade tab requirements. The guide below shows the dominant hue and modifying hue for selected shades. The dominant hue may be the only shaded composite necessary.
2. If a try-in indicates a need to alter the composite shade, add the modifying composite for the selected shade until the mixed composite closely matches the cervical 1/3 of the shade tab. Use the guide below
3. Because tooth color, thickness and opacity of the restoration affects the final shade, it may be necessary to further adjust the composite mix lighter or darker accordingly. When catalyst is added, the shade will be slightly lighter. *Do not add catalyst during try-in stages. Catalyst should be added in approximate equal parts to composite, just prior to inserting the restoration.*

<u>SHADE</u>		<u>MIX RATIO</u>		<u>MIX RATIO</u>	
<u>*Vita</u>	<u>Vitapan</u>	<u>*Bioform</u>	<u>DOMINANT HUE</u>	<u>MODIFYING HUE</u>	
No Shade Change			Light Universal	None	
B1-Extra Light			Extra Light	Light Universal	
A1,	2M1, 2M2,	B59, B51	Light Universal	Dark Yellow	
A2,	2R1.5,	B62, B56	3/4 Light Universal	1/4 Dark Yellow	
A3,	2R2.5, 3R2.5	B54	2/3 Light Universal	1/4 Dark Yellow	
A3.5,	4R1.5, 4R2.5,	B65, B70	7/8 Dark Yellow	1/8 Light Universal	
A4,	4L2.5		Dark Yellow	Light Universal	
B1	1M1, 1M2		Light Universal	Extra Light	
B2,	2L1.5,	B66, B52	Light Yellow Gray	Dark Yellow	
B3,	2L2.5, 3L2.5	B69, B55	1/2 Light Yellow Gray	1/2 Dark Yellow	
B4,	3M3,	B67, B77	1/4 Light Yellow Gray	3/4 Dark Yellow	
C1,	3M1	B91	Light Gray	Dark Gray	
C2,	3L1.5	B94	1/2 Light Gray	1/2 Dark Gray	
C3,	4M1, 4L1.5	B95	3/4 Dark Gray	1/4 Light Gray	
C4,	5M1		Dark Gray	Light Gray	
D2,	3M1,	B92	3/4 Light Yellow Gray	1/4 Dark Gray	
D3,	3R1.5	B93, B53	3/4 Light Yellow Gray	3/4 Dark Gray	
D4,	3L1.5		1/4 Light Yellow Gray	3/4 Dark Yellow	

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## DIRECTIONS

Some or all of the following materials may be included in this kit: *Tooth Etchant (37% H<sub>3</sub>PO<sub>4</sub>)*, *Luting Composite*, *Dual Cure Catalyst*, *Enamel Bonding Agent (unfilled resin)*, *Dentin/Enamel Bonding Agent*, *Porcelain Primer (silane)* and *Opaquer*.

1. Remove temporaries. Pumice and air dry preparations. Check restoration(s) for fit. Use water for retention. *Patient should not close on the restoration*
2. After try in, wash and air dry try-in tooth and all preparations. Clean restoration(s) with alcohol and dry with a hot air stream. If not already applied by lab, apply Porcelain Primer to internal surface of restoration.
3. Isolate tooth, place separation strips. When dentin is involved, apply liner only over near exposure areas.
4. Etch preparation with *Tooth Etchant*. Etch enamel 15 seconds followed with another 15 seconds for enamel and dentin. Etch enamel longer if necessary. Wash off and leave damp. **Do not dehydrate dentin.**  
***DO NOT USE ENAMEL BONDING AGENT (unfilled resin in syringe) ON DENTIN. If Dentin/Enamel Bonding Agent (in bottle) was not included in this kit use your own dentin/enamel bonding agent. If included, follow step 5.***
5. Keep tooth moist and vigorously brush on a coat of *Dentin/Enamel Bonding Agent (in bottle)*. Allow acetone to evaporate. Dry gently with air. Apply additional coats of *Dentin/Enamel Bonding Agent* until surface appears glossy. Light cure for 20 seconds. Do not contaminate with any moisture. If restoration is etched, apply either *Enamel Bonding Agent (in syringe)* or *Dentin/Enamel Bonding Agent (in bottle)* to internal surface of restoration. Brush off excess. *Do Not allow resin to pool. If layer is thin, curing should not affect fit.*
6. (If altering shade, see directions on opposite side) Mix *Luting Composite* (filled resin) with *Dual Cure Catalyst* (1:1 ratio). Load internal surface of restoration. *Don't mix more than can be used on one tooth at a time.*
7. Seat restoration on tooth with gentle pressure, leaving a small bead of cement to extrude at margins. Tack bond with small tipped light (2 mm. dia.) for 10 seconds.
8. Remove gross excess material from margins.
9. Cure each surface up to 60 seconds. Finish margins with appropriate ultra-fine burs and finishing strips.
10. Check occlusion and make adjustments, if necessary.
11. To insure seal, apply *Bonding Agent* around margins, floss, and light cure. Polish margins and/or surfaces..