Dr. Dennis Hartlieb
Free-Hand Bonded Veneer
Techniques & Material List
Full Material List

**Dental Composites**

Renamel Microfill  
Renamel Microfill Incisal Light  
Renamel Nano or Microhybrid  
Creative Color Tints  
Creative Color Opaque

**Finishing & Polishing**

Mini FlexiDisc (Coarse, Medium, Fine, and Superfine)  
FlexiBrush Point  
FlexiCups & FlexiPoints  
Mini FlexiBuffs (Felt discs)  
Enamelize  
FlexiDiamond Strip  
FlexiStrip Fine and Super Fine

**Instrument**s

Multi-Use  
IPC-L  
IPC-T  
8A

**Bonding Adhesive**

Questions? Visit us at www.cosmedent.com or call 1.800.621.6729
Inside-Out Technique

⇒ Ignore the outside shade of the tooth when you rebuild the dentin layer
⇒ Dentin Layer will be more chromatic or darker than the enamel layer
⇒ Enamel layer is more translucent and allows the dentin layer to shine through
⇒ Correct color is achieved with the perfect marriage of colors and opacities

Pros

• Ability to control translucency and opacity of restoration
• Can create more natural appearing restoration

Cons

• Dentin color determination critical
• Dentin build-up thickness demanding
• Enamel layer color can create dramatic differences
• Level of enamel layer translucency enormous impact on final restoration

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## Selection of Materials

<table>
<thead>
<tr>
<th>Strength</th>
<th>Renamel Microhybrid</th>
<th>Renamel Nano</th>
<th>Renamel Microfill</th>
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<tr>
<td>Particle Size</td>
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<td>Wear</td>
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<td>Polishability</td>
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Outside-In Technique

Same shade for all layers of composite

⇒ Ignore that the dentin layer is more chromatic
⇒ Dentin composite shade should match to the outside tooth shade
⇒ The enamel layer will match the dentin shade (only more translucent)

Pros

• Ability to control translucency and opacity of restoration
• More predictable to obtain desired external shade of tooth
• Can create more natural appearing restoration
• With Renamel Microfill for final surface, higher polish / gloss

Cons

• May need to add colorants to create depth in restoration between layers
• If using Renamel Microfill, must have Renamel Nano or Renamel Microhybrid support on incisal edge

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Finishing & Polishing

Finishing and Polishing Sequence

1. ET 9 Bur
2. Cosmedent's FlexiDisc Coarse
3. Cosmedent’s FlexiCup Medium
4. Cosmedent’s FlexiCup Fine
5. Cosmedent's FlexiDisc Medium
6. Cosmedent's FlexiBrush point
7. Cosmedent's FlexiDisc Fine
8. Cosmedent's FlexiDisc Super Fine
9. Enamelize with Cosmedent’s FlexiBuff

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