**Porcelain Repair**

*Porcelain Repair can be easy.*

_Just follow these simple steps!_

<table>
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<th>Step</th>
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| 1    | Isolate with rubber dam to prevent moisture contamination and protect surrounding tissues from HF etch.  
**Helpful Tip:**  • Use liquid rubber dam to protect any exposed dentin or enamel.  
• If you get HF on the tooth, you must remove it with a bur. HF forms calcium fluoride on the dentin which is unbondable. |
| 2    | Roughen porcelain (and/or metal in case of PFM) with a bur, or sandblast. Be sure to remove glaze around margin of repair area of porcelain. |
| 3    | Etch porcelain with **9.5% HF etch** for 60-90 seconds. Rinse and dry thoroughly.  
**Helpful Tip:**  • If you are using 4% HF etch, you must etch for 4-5 minutes. |
| 4    | Apply 1-2 thin coats of silane (**BisSilane**) to exposed porcelain. Air dry.  
**Helpful Tip:**  • If you have a small travel size hair dryer in the office. Use this to dry the silane at chairside. The heat accelerates the silanation process. |
| 5    | Apply bonding agent to entire area - porcelain and exposed metal.  
(All-Bond 2, All-Bond 3, One-Step, One-Step Plus, or Porcelain Bonding resin if only on exposed porcelain and/or metal) |

Helpful Tip:

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- If you get HF on the tooth, you must remove it with a bur. HF forms calcium fluoride on the dentin which is unbondable.
- If you are using 4% HF etch, you must etch for 4-5 minutes.
- If you have a small travel size hair dryer in the office. Use this to dry the silane at chairside. The heat accelerates the silanation process.
Porcelain Repair can be easy. Just follow these simple steps!

1. Air syringe to evaporate solvent, and light-cure for 10 seconds.
2. If there is exposed metal (PFM), use dual-cure opaquers or place thin layer of opaque flowable composite (Aeliteflo Opaque White). Light-cure 30-40 seconds.
4. Etch composite with 32%-37% phosphoric acid for 15 seconds. Rinse and dry thoroughly.
5. To create a “glazed” porcelain appearance, apply thin coat of BisCover LV. Let dwell for 15 seconds to evaporate solvent, and light cure for a minimum of 60 seconds.

- Always use a rubber dam to isolate when possible!
- Sandblast or roughen the surface with a bur.
- Be sure to check the percentage of your HF etch! Etching time is a key factor to the success of your porcelain repair!