The reasons to choose Vitrebond liner/base really stack up.

<table>
<thead>
<tr>
<th>Feature</th>
<th>VITREBOND™ Light Cure Glass Ionomer Liner/Base</th>
<th>DYCAL™ Calcium Hydroxide</th>
<th>AMALGAMBOND™ Adhesive</th>
<th>COPALITE™ Cavity Varnish</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluoride release</td>
<td>HIGH</td>
<td>NONE</td>
<td>NONE</td>
<td>NONE</td>
</tr>
<tr>
<td>Adhesion to dentin</td>
<td>HIGH</td>
<td>HIGH</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Ability to seal dentin/</td>
<td>HIGH</td>
<td>HIGH</td>
<td>POP</td>
<td>FAIR</td>
</tr>
<tr>
<td>microleakage control</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Compressive strength</td>
<td>HIGH</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Working time</td>
<td>LONG</td>
<td>LONG</td>
<td>N/A</td>
<td></td>
</tr>
<tr>
<td>Setting time</td>
<td>FAST</td>
<td>MEDIUM</td>
<td>MEDIUM</td>
<td></td>
</tr>
<tr>
<td>Total placement time</td>
<td>FAST</td>
<td>MEDIUM</td>
<td>MEDIUM</td>
<td></td>
</tr>
<tr>
<td>Antimicrobial</td>
<td>YES</td>
<td>NO*</td>
<td>NO</td>
<td>YES</td>
</tr>
<tr>
<td>Acid etch required</td>
<td>NO</td>
<td>NO</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Number of components</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>1 (2)†</td>
</tr>
</tbody>
</table>

* According to manufacturer.
† Copalite solvent required to maintain product consistency.

3M™ Vitrebond™ Liner/Base.
Your defense against microleakage.

Ordering information

7510 Vitrebond Light Cure Glass Ionomer Liner/Base
Contents: 9g light cure glass ionomer liner/base powder, 5.5ml light cure glass ionomer liner/base liquid, spoon, mixing pads.

7512P Vitrebond Light Cure Glass Ionomer Liner/Base powder, 9g.

7512L Vitrebond Light Cure Glass Ionomer Liner/Base liquid, 5.5ml.

3M Customer Hotline: 1-800-634-2249
If your patients are reporting post-operative sensitivity, 3M Vitrebond Light Cure Glass Ionomer Liner/Base may be the solution. Its unique chemistry helps you protect dentin in several ways.

**Excellent bond strength.**

By forming a hard, crack-resistant seal, Vitrebond liner/base reduces the incidence of microleakage.

- Forms a strong bond to dentin, sealing the tooth to protect against microleakage.
- Unique light cure technology results in a strong, crack-resistant adhesive lining, which challenges or exceeds the properties of competing products.
- In a clinical study, the Class V restorations lined with Vitrebond liner/base demonstrated 100% retention at the three-year recall.\(^3\)
- Higher compressive strength than other leading liner/base products.

**Antimicrobial action and fluoride release.**

Vitrebond liner/base protects the tooth long after the restoration is complete.

- Vitrebond liner/base produces zones of inhibition against bacteria in laboratory testing. Bacteria can increase the chance of post-operative sensitivity.
- A true glass ionomer with sustained fluoride release.

\[\text{Fluoride Release} \]

**Long-term fluoride release.** Vitrebond liner/base releases fluoride, which has been shown in invitro studies to minimize the incidence of artificial dental caries. DyCal, Amalgam Bond and Copalite do not offer this advantage.

\[\text{Compressive Strength} \]

**Superior compressive strength.** Vitrebond liner/base’s strength properties meet and far exceed the demands of placement under amalgam.

\[\text{SHEAR ADHESION TO BOVINE DENTIN} \]

**Excellent bond to dentin.** Vitrebond liner/base achieves an exceptionally strong, immediate and long-term (20 months) bond to dentin. Calcium hydroxide does not.

\[\text{COMPRESSIVE STRENGTH} \]

**Flouride Release**

60 120 180 240 300 360 420

MPa

VitrebondDYCAL

20.8 ± 3.5

9.8 ± 2.0

Vitrebond Liner/Base

A hard set in seconds.

Vitrebond liner/base is designed to be easy to use. In just a few simple steps, you’re assured of a hard set and an excellent seal.

- Fast technique.
- Excellent handling characteristics for easy placement.

1. Simply mix one level scoop of powder with one drop of liquid.
2. Apply in a thin layer, covering dentin.
3. Light cure for 30 seconds and you’re assured of a hard set.

\[\text{EXPERIMENTAL DESIGN} \]

**Excellent performance under both direct and indirect restorations.**

Vitrebond liner/base can be used successfully under any kind of restorative material.

- Convenience of a single liner/base that works well under composite, amalgam, ceramic and metal restorations.
- Excellent adhesion to 3M dental adhesive systems, whether using composite or amalgam.

**Flouride Release**

60 120 180 240 300 360 420

MPa

VitrebondDYCAL

20.8 ± 3.5

9.8 ± 2.0

**Reduced microleakage.** The photo at left shows how Vitrebond liner/base protects the dentin under amalgam. Red areas indicate microleakage, which stops precisely where Vitrebond liner/base has been placed.\(^1\) Photo at right shows excessive microleakage (blue area) contacting tooth structure where calcium hydroxide is used.

**Flouride Release**

Vitrebond liner/base achieves an exceptionally strong, immediate and long-term bond to dentin. Calcium hydroxide does not.

**Flouride Release**

60 120 180 240 300 360 420

MPa

VitrebondDYCAL

20.8 ± 3.5

9.8 ± 2.0

**Superior compressive strength.** Vitrebond liner/base’s strength properties meet and far exceed the demands of placement under amalgam.

**A copal varnish was also placed over exposed dentin and enamel surfaces and the cured Vitrebond liner/base. Varnish alone did not provide a seal.**