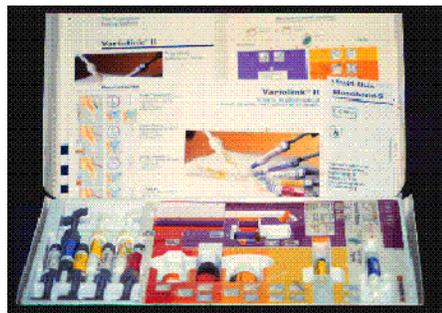


## 56-25 Variolink II (Project 98-13) (01/99)

For **UPDATE**, [click here](#).

Variolink II is a resin composite luting cement marketed by Ivoclar North America for cementation of indirect all-ceramic, Ceromer, and resin composite restorations. It is especially recommended for the insertion of IPS Empress restorations. Variolink II is said to be dual cured. Variolink II, the successor to Variolink, is purported to exhibit improved shade range, fluoride release, polishability, and decreased sensitivity to ambient light. Variolink II is available in five shades, three degrees of translucency, and three consistencies (low, high, and ultra-high viscosity). The Variolink II Professional Set includes both low- and high-viscosity cement. The ultra-high viscosity is designed for the ultrasonic cementation technique and must be ordered separately. Vivadent states that Variolink II has a film thickness of less than 22 microns.



Variolink II can be polymerized by both self- and visible-light curing. To reduce sensitivity to ambient light, Vivadent has developed a proprietary catalyst system designed to impart a deliberate "inhibition phase." Vivadent states that this inhibition system prevents polymerization but is overcome quickly (0.5 seconds) under the influence of a visible light curing unit's intensity. Vivadent claims that depths of cure of Variolink II vary with shade of cement, from two millimeters (base opaque) to six millimeters (transparent).

Vivadent uses ytterbium trifluoride ( $\text{YbF}_3$ ) in all of its resin composite materials.  $\text{YbF}_3$  was originally utilized as a radiopaquing agent but has been shown also to release fluoride. In addition, Vivadent has added barium-aluminum-fluorosilicate glass to Variolink II, similar to Vivadent's compomer Compoglass®. The additive effect of these two fluoride-containing materials is the basis for Vivadent's claim of Variolink II's increased potential for fluoride release.

### **Manufacturer:**

Ivoclar North America, Inc.  
175 Pineview Drive  
Amherst, NY 14228  
(800) 533-6825  
(716) 691-0010  
(716) 691-2285 FAX  
[www.ivoclarna.com](http://www.ivoclarna.com)

### **Suggested Retail Price:**

\$350.00 Variolink II Professional Set five 3-gm syringes of Variolink II Base Paste (one each of the following shades):

- five 3-gm syringes of Variolink II Base Paste (one each of the following shades):

-- Transparent

-- White (A1)

-- Opaque white

-- Yellow (A3)

-- Brown (A4)

- one 3-gm syringe of low-viscosity Variolink II catalyst, yellow shade (A3)

- one 3-gm syringe of high-viscosity Variolink II catalyst, yellow shade (A3)

- one 2-gm syringe of Total Etch etching gel

- one 6-gm bottle of Heliobond

- one 5-gm bottle of Monobond-S
- one 3-gm bottle of Syntac Primer
- one 3-gm bottle of Syntac Adhesive
- one 2.5-gm syringe of Liquid Strip
- Brush holders, brushes, mixing pads, various cannulas

**Government Price:**

\$135.00 Variolink II Professional Set (contents as listed above)

**ADVANTAGES:**

- + Professional Set uniquely contains two-viscosity delivery system.
- + Both low- and high-viscosities have acceptable film thicknesses.
- + Delivery system is easy to use and integrates well into existing clinical technique.
- + Meets esthetic needs of average general practice.
- + Easy post-cementation cleanup.
- + Provided with comprehensive and detailed written instructions.
- + Easy-to-read colored flash cards provide instant technique reference.
- + Most radiopaque of all resin systems evaluated by DIS.
- + Adequate working time.
- + Includes color-coded straightforward Syntac bonding system and silane porcelain primer.
- + Cement syringes are well labeled and color coded.

**DISADVANTAGES:**

- Only one try-in paste is included (glycerin transparent gel); others must be purchased separately.
- No ceramic etch is included.
- No lower-chroma shades (i.e., A2, B1, B2) are available.
- Slightly more expensive than other dual-cure esthetic resin luting systems.

**SUMMARY AND CONCLUSIONS:**

Variolink II is a dual-cure esthetic resin cement luting system marketed by Vivadent that was highly rated by clinical users. Variolink II uniquely offers a choice of three viscosities of resin cement. Clinical users found the manufacturer's instructions comprehensive and easy to read; colored flash cards were included that provided quick reference. Variolink II's dispensing system was easy to use and integrated well into existing users' clinical techniques. It met the esthetic needs of the general dental practice, was found to be easily manipulated, and offered easy post-cementation clean up. Variolink II exhibits adequate working time, film thickness, and radiopacity. **Variolink II** is rated **Acceptable** for use by the federal dental services.

**UPDATE**

**Variolink II** is a dual-cured resin cement from Ivoclar Vivadent. DIS evaluated the product in 1999 and reported it favorable. However since that time it has been modified in several important ways. The original product came in 5 shades while the new product has an additional shade, bleach extra-light. A new transparent catalyst has also been added in high and low viscosities. Unlike before, the pastes are all now packaged in Luer-Lock Push Syringes which, Ivoclar claims, gives users better control when dispensing the materials. The cement is provided with Ivoclar's newest dentin bonding agent, Excite. The Variolink II Cementation System Package (item number 558946) contains 6 syringes of cement base paste, 4 syringes of cement catalyst paste, a syringe of 37% phosphoric acid etchant, a syringe of separating agent, silane, Excite bonding agent, and accessories. It is available for \$350.00 (retail) and \$135.00 (government) from Ivoclar Vivadent at (800) 533-6825, (716) 691-0010, (716) 691-2285 FAX or [www.ivoclarvivadent.us.com](http://www.ivoclarvivadent.us.com).

