

62-14 One-Up Bond F (Project 00-44) (04/01)

One-Up Bond F is a self-etching, one-step, light-activated bonding agent that consists of two bottles. Once mixed, the product etches, primes, and bonds in one step. As a result, One-Up Bond F's application eliminates the separate etching, rinsing, and drying steps inherent to many currently-available bonding agents. J. Morita claims that One-Up Bond F contains and releases fluoride. Product instructions describe its use for bonding direct resin composite restorations and for sealing exposed cervical dentin and root surfaces. The product is distinguished from other bonding products in that it undergoes color changes that enable the clinician to visually confirm the mixing and application steps. When mixed, the liquids from Bottle A and Bottle B turn pink to enable users to confirm that they have applied the bonding agent to all intended areas. During light activation, the agent becomes nearly colorless.



To apply One-Up Bond F, one drop of each solution is mixed together, applied to enamel and dentin, and allowed to remain undisturbed for 20 seconds. The area is then exposed to a standard curing light for 10 seconds.

The product comes with a sheet of written instructions and a graphics-containing summary instruction card. The card, attached to the inside cover of the product box, can be removed for user convenience. The product box is very small, measuring 5 inches by 3 inches by 1 inch.

Manufacturer/Distributor:

Tokuyama Corp./ J. Morita
9 Mason
Irvine, CA 92618
(888) 566-7482
(949) 581-9600
(949) 465-1095 FAX
www.jmoritausa.com

Suggested Retail Price:

\$109.00 One-Up Bond F Kit (item number 26-11095) contains:
-one 5-mL bottle A
-one 5-mL bottle B
-accessories (e.g., brush handle, disposable tips, mixing dish)

Government Price:

\$76.30 One-Up Bond F (item number and contents as described above)

ADVANTAGES:

- + Extremely fast to apply.
- + Application process is simple and very straightforward because no separate enamel etching step is required by instructions.
- + Produces strong bond to dentin (23.3 MPa).
- + Preliminary research by outside evaluators indicates acceptable bond to cut enamel.
- + Clinical evaluators found the product's color changes facilitated its proper application.
- + Does not need to be applied to "moist" dentin.
- + Little, if any post-placement sensitivity.
- + Expiration dates and lot numbers are stamped on individual components.

- + Is provided with clear, easy-to-understand, graphics-containing instruction card.
- + No offensive odor.
- + Shipped in small, space-saving box.
- + Recommended storage conditions are provided on box.
- + Is shipped with a Material Safety Data Sheet (MSDS).

DISADVANTAGES:

- Requires mixing.
- Not available in a unit-dose form.
- Can only be used for limited purposes (i.e., bonding to enamel and dentin and desensitizing tooth structure).
- Not recommended for use with chemically-cured resin composites.
- Limited published research is available for product.
- Lot number on box differed from those stamped on the bottles.

SUMMARY AND CONCLUSIONS:

One-Up Bond F is one of the newly introduced bonding products that etch, prime, and bond all in one step. Because it is a one-step product, it is easy to learn to use and is one of the two fastest bonding agents to apply (i.e., 51 seconds) that DIS has ever evaluated. One-Up Bond F undergoes color changes during application that help users ensure it is placed properly. It forms an acceptable bond to dentin and cut enamel, but more research needs to appear in the published literature assessing the product's ability to bond to and seal uncut enamel without separate phosphoric acid etching. Because it uses a self-etching primer, the dentin need not be "moist" when it is applied. This is advantageous because many clinicians are unsure of the degree of "moistness" dentin should have at the time of bonding. The product is used for limited purposes and should not be viewed as a multi-substrate bonding agent. For example, it can not be used for bonding chemically-cured resin composites to tooth structure, and its instructions do not describe using it for amalgam bonding or bonding indirect restorations. Its laboratory bond strength to dentin is comparable to some two-step products recently evaluated by DIS. For the simple bonding procedures for which it is intended, **One-Up Bond F** is rated **Acceptable** for use by the federal dental services.