

Unifast LC Temporary Crown and Bridge Material (Project 01-44) (05/02)

Unifast LC is a visible-light-activated resin recommended by GC America for the fabrication of provisional (i.e., temporary) restorations. It is supplied as a powder and liquid which are hand mixed at the time of use. The product is available in five Vita shades and a translucent shade. To use the material, it is mixed and placed in an impression or stent which is then seated over the prepared teeth or model. After approximately 2 to 3 minutes, the material enters a rubbery stage. At that point, the provisional can be removed from the stent and the excess Unifast material trimmed with scissors or a scalpel blade. The provisional is then re-seated onto the preparation(s) and the patient instructed to gently bite into occlusion. The restoration is partially light-cured with a standard hand-held light-curing until it becomes firm. It is then removed and final curing is done for 20 to 60 seconds, depending on the shade and thickness. Unifast LC is packaged in a small paper box with an instruction sheet.



Manufacturer:

GC America Inc.
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Alsip, IL 60803
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(708) 597-0900
(708) 371-5103 FAX
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Suggested Retail Price:

\$204.75 Unifast LC Introductory Package (item number 338006) contains:
-six 30-g bottles of powder (one each of shades A2, A3, B2, B3, C2, Translucent)
-two 15-mL bottles of liquid
-two rubber mixing cups
-powder and liquid measuring vials
-brush and spatula

Government Price:

\$74.45 Unifast LC Introductory Package (contents and item number as listed above)

ADVANTAGES:

- + Can be light cured, which reduces chair time.
- + Shades were sufficient for most clinical cases treated during the evaluation.
- + Adequately-long working time.
- + Works well as a reline/add-on material to correct voids and deficient margins of existing provisionals.
- + Exhibited a very low fracture rate during evaluation.
- + One of the harder provisional materials tested by DIS.
- + From 30% to 50% less expensive per gram than several other popular provisional materials.
- + Compact packaging facilitates storage.

DISADVANTAGES:

- Difficult to polish to a high luster.
- Finished provisionals exhibited porosity.
- Instructions do not specify the length of light exposure to be used for initial curing of material.
- Not sufficiently radiopaque

- Must be hand mixed; not available in automix cartridge form.
- As provided, the expiration dates and lot numbers information is confusing.
- Not shipped with a Material Safety Data Sheet (is readily available, however, at GC America web site).

SUMMARY AND CONCLUSIONS:

Clinical users reported that Unifast LC was easy to use, had an appropriate viscosity, and came with an adequate number of shades. They appreciated the material's ability to be light cured and found it to be an excellent material with which to reline existing provisionals, correct voids, and repair deficient margins. Unifast LC also is sold at a very attractive price. Evaluators were less impressed with the material's polishability, degree of porosity, and overall esthetics. Another drawback of Unifast LC is that it must be hand mixed. Interestingly, as is the case for several other well-known provisional materials, the product lacks adequate radiopacity for easy radiographic detection. **Unifast LC Temporary Crown and Bridge Material** is rated **Acceptable** for use by the federal dental services.