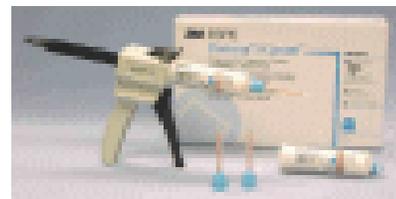


### **Protemp 3 Garant Temporary Material (Project 01-55) (09/02)**

Protemp 3 Garant is a self-cured bis-acryl composite recommended by 3M ESPE for the fabrication of provisional (i.e., temporary) crowns, bridges, inlays, and onlays. The material is available in four shades (A1, A3, B0.5, B3) and is supplied in cartridge form for use in an automix dispenser gun. The manufacturer claims that the gun produces a homogeneous, void-free mix. A specially designed dispenser syringe of AddOn, a low-viscosity light-cured resin, is also included with the product. AddOn is used to correct voids or defective margin areas of the provisionals. Provisional restorations made with Protemp 3 Garant are said to be more fracture resistant than those made with other composite products. 3M ESPE also claims that the restorations have excellent marginal adaptation and are fast and easy to polish.



Protemp 3 Garant is packaged in a heavy paper box with a flip-open lid. A laminated, graphics-containing instruction card is included along with a special gun dispenser. Expiration dates and lot numbers are printed on the outside of the box as well as on the cartridges. Although only one shade of Protemp 3 Garant is provided with an order, all four available shades were provided to the clinical users in the DIS evaluation.

#### **Manufacturer:**

3M Dental Products Division  
3M Health Care  
3M Center, Bldg 275-2SE-03  
St. Paul, MN 55144-1000  
(800) 237-1650  
(612) 733-8524  
(800) 888-3132 FAX  
[www.3m.com/espe/index.html](http://www.3m.com/espe/index.html)

#### **Suggested Retail Price:**

\$169.00 Protemp 3 Garant Starter Pack (item number 46943) contains:  
-one 50-mL (67-g) Protemp 3 Garant cartridge (shade A1)  
-one Garant 2 Dispenser  
-15 Garant 2 Mixing Tips  
-one 2-g syringe of Protemp 3 AddOn Material (shade A1)

#### **Government Price:**

\$106.50 Protemp 3 Garant Starter Pack (contents and item number as listed above)

#### **ADVANTAGES:**

- + Produces well-fitting, esthetic provisional restorations.
- + Has an adequately-long working time.
- + Has an appropriate setting time which means provisional restorations can be finished/polished without undue waiting.
- + Automix gun system makes mixing fast, easy, and consistent.
- + Provided good detail reproduction of marginal areas which made finishing easier.
- + AddOn material make it easy and fast to repair voids and defective margins.
- + Comes with excellent graphics-containing summary instruction card.
- + Exhibits very little odor.
- + Lot number and expiration date are stamped on each component in kit.

**DISADVANTAGES:**

- Instructions do not stress need to remove oxygen-inhibited layer prior to finishing.
- Is brittle; should be used cautiously for temporaries in high stress-bearing areas.
- Only provided with one shade in kit; other three must be purchased separately.
- Requires special gun dispenser for the cartridges.
- Is significantly softer than several other provisional materials tested by DIS.
- More expensive per gram than several other popular provisional materials.
- Not sufficiently radiopaque.
- Not shipped with a Material Data Sheet (MSDS).

**SUMMARY AND CONCLUSIONS:**

Protemp 3 Garant performed well in the laboratory and during clinical-user tested. Clinicians reported that Protemp 3 Garant produced esthetic, well-fitting restorations. Users had sufficient time to work with the material before it began to set. Despite the fact that it hardened slightly slower than claimed, it did not take an unduly long time. The shades provided to the evaluators were found to be adequate, however potential buyers should be aware that the standard kit contains only one shade. The automix gun dispenser made it easy to mix the product and produced homogeneous mixes. The cartridges require the use of a special gun, however the Starter Pack includes it. Users particularly liked the provided AddOn resin because it made repairing provisionals simple and fast. They weren't totally satisfied with Protemp 3 Garant, however. They felt the instructions didn't adequately stress the need for removing the resin's air-inhibited layer prior to finishing. Also, as with other resin composite provisional materials, Protemp 3 Garant is brittle and inappropriate for long-span provisionals, particularly where the occlusion is heavy. **Protemp 3 Garant Temporary Material** is rated **Acceptable** for use by the federal dental services.