

Protemp™ 4

Temporization Material



Highest fracture resistance

Gloss without polishing

Key features

- Record-breaking toughness and fracture resistance
- Sophisticated filler technology provides strength and beauty
- Easier and faster handling and fabrication
- Smooth, glossy surface requires no polishing or glaze
- Easy plaque removal to support gingival health

Indications

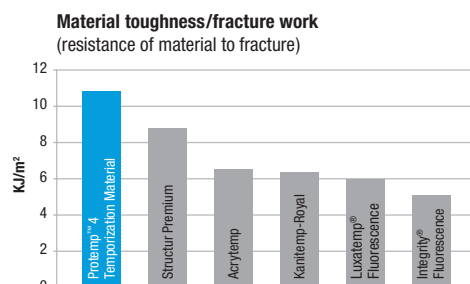
- Crowns
- Bridges
- Inlays and onlays
- Veneers
- Long-term temporaries

The benchmark in strength and aesthetics.

With Protemp™ 4 Temporization Material, 3M ESPE has applied its leading expertise in temporization and nanotechnology to set another milestone in temporary crown and bridge materials.

Record-breaking toughness and high fracture resistance.

In vitro tests prove Protemp 4 material is tougher than all temporary materials on the market – making it also suitable for long-term temporization. Toughness is defined by flexural strength and deflection/flexibility which indicates the amount of energy that can be absorbed before fracture.

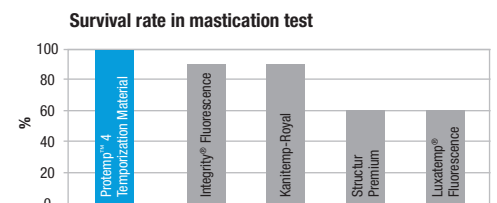


In a test measuring material toughness, Protemp™ 4 Temporization Material showed greater resistance to fracture than other tested temporization materials.

Source: V. Babic, R. Perry and G. Kugel, Tufts University, Boston, MA, U.S.A., AADR 2008, #0371

Greater mechanical strength means a higher survival rate of temporary restorations.

In an in vitro test, 3-unit bridge temporaries made of Protemp 4 material and other competitive materials were subjected to mastication simulations that closely simulated the in vivo situation. Various toughness measurements indicated a higher chance of survival in real life for Protemp 4 temporization material.



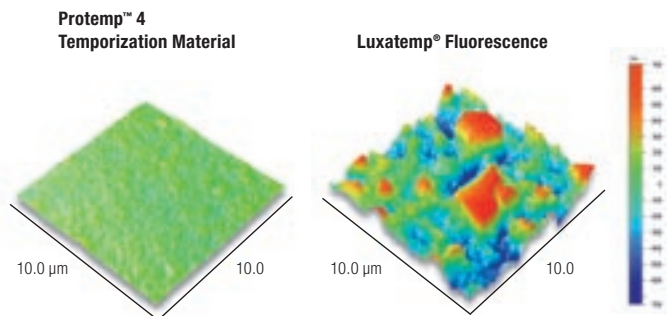
Survival of 3-unit bridges in mastication tests: 10 samples of each product tested with 450,000 loading cycles (100N) and 3,000 thermocycles (5-55°C).

Source: 3M ESPE internal data

Gloss without polishing or glazing – a benchmark in surface quality.

Enhanced by 3M ESPE nanotechnology, Protemp™ 4 Temporization Material produces a smooth, glossy surface from the beginning, as below topography pictures show. Simply cleaning the temporary with ethanol results in a brilliant, natural-looking gloss – eliminating the need for polishing or glaze. Other advantages include:

- Better colour stability
- Easy plaque removal to support gingival health during the wear time of the temporary restoration

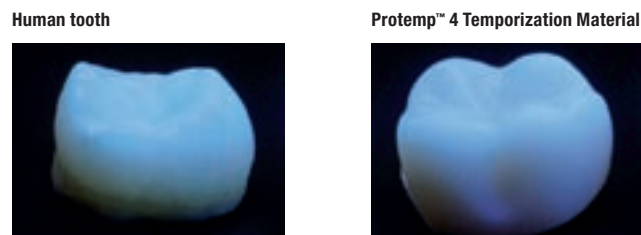


Surface topography of Protemp™ 4 and Luxatemp® Fluorescence after removing of the inhibition layer with alcohol and no further polishing.

Source: 3M ESPE internal data – Atomic Force Microscopy (AFM) images by 3M Corporate Research Analytical Laboratory – (CRAL)

Patient-pleasing aesthetics and fluorescence close to nature.

Protemp™ 4 Temporization Material's fluorescence pigments match very well with the fluorescence of natural teeth, creating temporaries that look naturally beautiful in all lighting conditions.



Comparing the fluorescence of temporization materials under ultraviolet light shows Protemp™ 4 Temporization Material looks almost the same as natural teeth.

Source: 3M ESPE internal data

The Protemp™ Temporization Family – The top-of-the-class solution in temporaries.

With Protemp™ 4 Temporization Material and Protemp™ Crown Temporization Material – the world's first malleable and light-curable composite crown for single-unit temporaries – 3M ESPE now offers a complete line of temporization materials – providing first-rate performance, reliability and state-of-the-art quality for all temporary indications and needs.

Ordering Information

Item No.	Product Information
	Protemp™ 4 Temporization Material
46953	Protemp™ 4 Temporization Material Intro Kit – A2 1 cartridge – 50 ml, A2; 16 Garant™ Mixing Tips, blue; 1 Garant™ Dispenser 10:1, technique card, instructions
	Refills
46959	Protemp™ 4 Temporization Material Refill – Bleach 1 cartridge – 50 ml, Bleach; 16 Garant™ Mixing Tips, blue; instructions
46954	Protemp™ 4 Temporization Material Refill – A1 1 cartridge – 50 ml, A1; 16 Garant™ Mixing Tips, blue; instructions
46956	Protemp™ 4 Temporization Material Refill – A2 1 cartridge – 50 ml, A2; 16 Garant™ Mixing Tips, blue; instructions
46957	Protemp™ 4 Temporization Material Refill – A3 1 cartridge – 50 ml, A3; 16 Garant™ Mixing Tips, blue; instructions
46960	Protemp™ 4 Temporization Material Refill – B3 1 cartridge – 50 ml, B3; 16 Garant™ Mixing Tips, blue; instructions



Protemp™ Crown Temporization Material

50600	Protemp™ Crown Temporization Material Intro Kit 42 Temporary Crowns; Crown Size Tools (2 bags of 10); instructions; Crown Drawer; Crown Drawer Labels Temporary Crown Sizes: 6× Molar Upper Large, 6× Molar Upper Small, 6× Molar Lower Large, 6× Molar Lower Small; 4× Bicuspid (Premolar) Upper Large, 4× Bicuspid (Premolar) Upper Small, 4× Bicuspid (Premolar) Lower; 3× Cuspid (Canine) Large, 3× Cuspid (Canine) Small
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Protemp™ 4 shades match Filtek™ Supreme XT Flowable Restoratives from 3M ESPE. For high-precision preliminary impressions we recommend Position™ Penta™ (Quick) VPS Alginate Replacement and the single-use Position™ Tray from 3M ESPE.

3M ESPE

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You + 3M ESPE =

Groundbreaking ideas for dentistry

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