

Tuff-Temp™ Plus

Provisional Veneer, Crown & Bridge Resin

Rubberized-Urethane™ - Dual Cure

Tuff-Temp Plus's advanced rubberized-urethane chemistry provides greater strength and dimensional stability, and a tighter fitting provisional restoration than acrylics and bis-acrylics. Breakage and debondings are minimized or eliminated.

The material grinds and powders producing crisp and accurate margins that do not soften or distort. Finishing instruments do not gum up or clog. Trimming with a slow speed acrylic bur, fine grit diamond bur or finishing and polishing disk system provides exceptional results.

Tuff-Temp Plus is dual cure. It self-cures and has a light cure option to produce a full strength restoration on demand. Fast light curing is also ideally suited for use with a clear vinyl polysiloxane template.

Tuff-Temp Provisional Add-on is shade-matching, light cure, and formulated from Pulpdent's proprietary rubberized-urethane chemistry. It is ideal for making alterations, corrections and for smile design. Tuff-Temp Plus is compatible with all flowable composite resins. **Tuff-Temp Provisional Glaze** is light cure and provides enhanced esthetics and patient satisfaction during temporization.

CARTRIDGE SYSTEM

The cartridge fits into a standard **one-to-one** applicator gun used for dental materials. **Assemble cartridge system, place static mixer on the cartridge and press trigger to dispense material.**

When using a cartridge for the first time, purge a small amount of material onto a mixing pad to ensure that both base and catalyst pastes will extrude equally. Discard the purged amount.

PHYSICAL PROPERTIES

Working time:	45 seconds
Initial self-cure setting time:	75 seconds after insertion in the mouth (2 minutes from beginning of mix)
Final self-cure setting time:	4:45 minutes from beginning of mix
Light cure setting time:	20 seconds (halogen light with a minimum of 300 mW/cm ²)
Flexural strength:	75 (±5) MPa
Compressive strength:	200 (±20) MPa
Deflection at break:	2.9 mm (±0.3 mm)
Vickers Hardness:	514 MPa

Note: Apply disposable barrier sleeves/wraps over multiple-use dental dispensers before use with each patient. For additional information, refer to: <http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/DentalProducts/ucm404472.htm>

INSTRUCTIONS FOR USE

1. Take a pre-operative quadrant or full arch impression using vinyl polysiloxane or alginate impression material and trim interproximal excess. Remove additional impression material to alter the shape and thickness of the provisional prosthesis, if desired.
2. When constructing a temporary bridge, the pontic area should be cut out and removed from the impression matrix. Alternatively, make a diagnostic wax-up on a study model or replace the missing tooth on a study model with a denture tooth.
3. Prepare the abutment teeth.
4. Dry the matrix with compressed air. Use a water soluble lubricant as a release agent and separating medium. It is advisable to use a chairside timer set it at 2 minutes for this procedure. Fill the matrix with Tuff-Temp Provisional Veneer, Crown & Bridge Resin. Always fill from bottom up, keeping the mixing tip immersed in the material to prevent bubbles. After the matrix is approximately three-quarters full (this should be done within 45 seconds) place it in the patient's mouth. After approximately 75 seconds in the mouth (2 minutes from beginning of mix) remove the matrix from the mouth. At this stage Tuff-Temp Plus will be somewhat flexible and will pull over any undercuts or non-parallel preparations.
5. Remove the prosthesis from the matrix and trim excess flash. Remove oxygen inhibited layer on the surface by light curing or wiping with alcohol. Light curing will provide a final set at full strength in 20 seconds.
6. In self-cure mode, Tuff-Temp Plus cures to full strength and is ready to be polished in 2 minutes and 45 seconds after removal from the mouth (4:45 minutes from beginning of mix).
7. When trimming is indicated, apply suction to remove grinding dust and use a slow-speed acrylic bur, fine grit diamond bur or finishing and polishing disk system. Finish margins with a diamond impregnated wheel or medium grit paper disk while applying suction.
8. Tuff-Temp Provisional Add-On can be used to make small corrections or alterations. If the oxygen inhibited layer has been removed, etch the surface for 15 seconds with Etch-Rite phosphoric acid etch gel. Rinse and dry. Apply Tuff-Temp Add-On and light cure for 20 seconds.
9. Polish as usual. Apply a generous coat of Tuff-Temp Provisional Glaze and light cure for exceptional esthetic results
10. Cement the prosthesis with temporary or provisional cement.
11. Recap cartridge immediately after use or leave the mixing tip on the cartridge until the next use. It will serve as a cap.



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