Geristore®
By DenMat®

Geristore® Syringeable

Dual-Cure Resin-Ionomer

CE 0459

U.S. Patents: 5,683,249

Store Under Refrigeration

***Important:* Bring Geristore to room temperature before using!**

Geristore is a fluoride-releasing, radiopaque, hydrophilic, restorative material. **Geristore's** physical properties include low cure shrinkage, low coefficient of thermal expansion, and high strength. The material aggressively bonds to dentin, enamel, composite, porcelain, and metal, including stainless steel. The dual-cure formulation assures the integrity of the restoration in areas difficult to light-cure.

DIRECT RESTORATIONS

Note: Remove **Geristore® Syringeable** from the refrigerator about 30 minutes before needed.

1. Clean tooth surface(s) thoroughly.
2. Prepare the tooth surface according to the type of surface you will be bonding to:
   a. DENTIN and ENAMEL: For maximum bond strengths, the **Tenure® Multi-Purpose Bonding System** should be applied prior to **Geristore**.
   b. COMPOSITE/METAL: Roughen surface with diamond or sandblaster. Thoroughly wash and air-dry. Apply **Dry Bond** to degrease and assure that there is a clean, dry surface.
3. Prepare the auto-mix syringe:
   a. Align the straight edge of the auto-mixing housing with the syringe flange.
   b. Push the mixing tip onto the syringe and turn 90° clockwise until it stops.
   c. Attach the intraoral tip firmly.

Note: You must extrude a pea-sized amount of material after placing the mixing tip on the syringe - discard this material. This is critical to ensure that **Geristore Syringeable** sets properly. Repeat this each time a mixing tip is placed on the syringe.

4. Dispense **Geristore** onto the area to be restored.

NOTE: Material will reach final cure in 3-4 minutes from the time dispensed. The working time is 1 1⁄2–2 minutes unless the material is light-cured. To determine the correct curing times for your curing light(s), we recommend that you use the curing rings provided.

5. Finishing: For esthetic areas, apply a thin layer of **Virtuoso® Flowable Clear** (No.030381827). Finish with 12 or 30 fluted bur and polish.

BASE AND LINER

1. Apply the **Geristore®** mixture to dentin surfaces and light-cure.
2. Complete the restoration with **Virtuoso Universal Composite** or take an impression for an indirect restorative. **Geristore** is compatible with any Bis-GMA-based restorative.

CEMENTING INDIRECT RESTORATIONS

(Metal and PFM Crowns, Inlays, Onlays, Bridges)

Geristore can also be used to cement metal and PFM crowns, bridges, inlays, and onlays. Seat the restoration and remove the excess material at the gel stage.

Note: For Maryland Bridges and other restorations with little or no mechanical retention, we recommend applying the **Tenure® Multi-Purpose Bonding System** to dentin or enamel prior to the application of **Geristore**.

1. Using a plastic instrument, coat tooth surface(s) and prepared bonding surface of indirect restorative with the **Geristore** mixture. Seat the restorative, noting excess **Geristore** escaping from all margins.
2. Take care not to disturb the restoration. Remove the excess after gel time (approximately 2 minutes) but before final cure (3-4 minutes from time of mix).
3. After the final set (approximately 3-4 minutes), finish the margins with a fine diamond or 12 or 30 fluted bur.

ORTHODONTIC APPLIANCES

1. For brackets, etch the teeth and apply **Tenure Multi-Purpose Bonding System** (No. 031146000) to the enamel. Coat the **Geristore** mixture onto the bracket and seat the bracket. Remove excess material with a sable brush dipped in **Tenure S** (No. 031145100).
2. For bands, apply **Tenure** to the inside surface of the band and to the enamel. Coat the inside surface of the band and tooth with the **Geristore** mixture and slide the band into place. Remove excess with a sable brush dipped in **Tenure S**. **Geristore** is compatible with any esthetic orthodontic hardware (porcelain, acrylic, or plastic).
3. Light-cure the brackets or bands.

Due to variations in the performance characteristics of light curing units ALWAYS bench test restorative materials before use in vivo. Curing test rings are provided for this purpose.

   a. Fill the 2mm deep well of the test ring and level material.
   b. Position the light transmitting element perpendicular to and approximately 2mm-5mm above the top surface of the ring.
      - With Sapphire PAC lights (all models) start with 5 second exposures.
      - With Flashlite LED lights (all models) start with 10 second exposures.
      - For all other curing lights; halogen, LED and other refer to the manufacturer instructions. A minimum of 10-30 seconds is recommended.
   c. Use a dental probe to scrape test the hardness of the top and bottom surfaces. The bottom surface should be as hard as the top surface.
   d. If the bottom surface is not completely cured repeat steps (b) to (c). Repeat until the bottom surface is completely cured.
   e. Maintain a log including material, shade and associated curing exposure time. Use the log to monitor system performance.

Note: If a cavity preparation is deep curing exposure times must also be increased due to beam divergence and angular placement of the light transmitting element to the restoration. An incremental filling technique is recommended and each increment should be fully cured prior to applying additional layers.

General guidelines for curing light unit exposure times. See manufacturer's instructions. ALWAYS bench test restorative materials before use in vivo.

- Curing lights with power density greater than 800 mW/cm2. Cure the buccal and lingual with 10 second exposures for each area.
- Curing lights with power density less than 800 mW/cm2. Cure the buccal and lingual for 20 second exposures for each area.
- Curing lights with power density less than 300 mW/cm2 should not be used to cure.

STORAGE

Do not freeze.
Do not expose to direct sunlight.
Do not expose to temperatures exceeding 75° F (24° C).
Refrigerate for maximum shelf life. Return to room temperature prior to use.

RELATED DEN-MAT PRODUCTS

Description	Part Number
Tenure® Uni-Bond® with Gloss-N-Seal®	030411900
Tenure® Multi-Purpose Bonding System	031146000
Virtuoso® Flowable Custom 15 Shade Kit	030381800
Tenure® S Value Kit	031145100
Virtuoso® Universal Intro Kit	030381950
Sappire® Plus Plasma Arc Curing Light	033968000
FLASFlite® Magna 4.0 LED Curing Light	CR1079

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