

INSTRUCTIONS FOR USE:
Fusio™ Liquid Dentin Instructions for Use
Indications:

- Self-Adhesive base liner under higher viscosity restorative materials
- Class III restorations
- Restoration of small Class I cavities
- Blocking out undercuts
- Pit and fissure sealant

Contraindications:

- Avoid placing *Fusio* Liquid Dentin in stress bearing areas. Use *Artiste® Nano Composite* for these applications.
- Do not apply phosphoric acid etch to dentin prior to placing *Fusio* Liquid Dentin.

Caution: The use of this product should be avoided on patients with a known sensitivity to any of its ingredients.

Incompatibility:

- Avoid using materials that contain eugenol or clove oil as they may inhibit the polymerization of this composite and interfere with bonding to tooth structure. Contact with cationic mouth rinses, plaque disclosing agents and chlorhexidine may result in discoloration.

DENTIN REPLACEMENT MATERIAL OR SELF-ADHESIVE BASE LINER INSTRUCTIONS FOR USE

1. Clean the teeth before selecting the shade.
2. Isolate the treatment area with a rubber dam.
3. Prepare the cavity according to the principles of adhesive dentistry. Avoid any sharp internal edges. Remove any potential debris with water and thoroughly clean the cavity. Blot or air-dry briefly (2 – 3 seconds) to remove excess water and form a moist surface with no water pooling. The surface should glisten and appear slightly shiny, not dull. Do not desiccate the tooth.

Important Note: Ensure that surface debris is removed and the preparation is clean. Intimate contact between *Fusio* Liquid Dentin and the tooth surface is essential for achieving a good and reliable bond.

4. For deep cavities cover the floor adjacent to the pulp with calcium hydroxide material and subsequently use *Fusio* Liquid Dentin.
5. Use a transparent matrix for cavities affecting the proximal areas. In the posterior region, a stainless steel matrix may be used with caution as the flowable may adhere to the matrix band.
6. Using the bent needle tip supplied, dispense a 1mm increment of *Fusio* Liquid Dentin directly onto the tooth surface. Gently rub the material into the preparation using the needle tip for 20 seconds. A *Microbrush®* micro applicator may also be used to agitate the initial layer of *Fusio* Liquid Dentin for 20 seconds. Pull the syringe plunger back after use to prevent overflow of the *Fusio* Liquid Dentin from the syringe tip.
7. Light cure the initial layer for 10 seconds with a curing light with output in excess of 600 mW/cm².
8. Continue to add subsequent layers of *Fusio* Liquid Dentin as desired. Do not apply in increments of more than 2mm thickness for proper light curing for the subsequent layer(s). Light cure each additional 2mm increment for 10 seconds. The final layer should be cured for an additional 10 seconds.
9. Total etch the enamel, any dentin that may have not been covered by the Liquid Dentin, and the *Fusio* Liquid Dentin filled prep with 37% phosphoric acid etchant for 20 seconds. Rinse thoroughly. Remove excess moisture using suction. Leave surface moist.
10. Apply 2 coats of *Bond-1®* Primer/Adhesive to the enamel and flowable composite. Lightly air thin for 10 seconds to remove the solvent. Light cure for 10 seconds.
11. Apply an *Artiste Nano Composite* enamel shade in 0.5mm to 2mm layers maximum, cure, and polish.

(Continued on the next page.)

INSTRUCTIONS FOR USE:**GENERAL INSTRUCTIONS FOR USE:**

1. Clean the teeth before selecting the shade.
2. Isolate the treatment area with a rubber dam.
3. Prepare the cavity according to the principles of adhesive dentistry. Avoid any sharp internal edges. In anterior regions, bevel the enamel edges for better retention. Thoroughly clean the cavity and remove any potential debris with water. Blot or air-dry briefly (2 – 3 seconds) to remove excess water for a moist surface with no pooling water. The surface should glisten and appear slightly shiny. Do not desiccate the tooth.

Important Note: Ensure that surface debris is removed and the preparation is clean. Intimate contact of *Fusio* Liquid Dentin to the tooth surface is essential for achieving a good and reliable bond.

4. For deep cavities cover the floor adjacent to the pulp with calcium hydroxide material first and subsequently use *Fusio* Liquid Dentin.
5. Use a transparent matrix for cavities affecting the proximal areas. In the posterior region, a stainless steel matrix may be used with caution as the flowable may adhere to the matrix band.
6. Using the bent needle tip supplied, dispense a 1mm increment of *Fusio* Liquid Dentin directly onto the tooth surface. Gently rub the material into the preparation using the needle tip for 20 seconds. A *Microbrush* micro applicator may also be used to agitate the initial layer of *Fusio* Liquid Dentin for 20 seconds. Pull the syringe plunger back after use to prevent overflow of the *Fusio* Liquid Dentin from the syringe tip.
7. Light cure the initial layer for 10 seconds with a curing light with output in excess of 600 mW/cm².
8. Syringe additional *Fusio* Liquid Dentin as necessary. Do not apply in increments of more than 2mm thickness for proper light curing for the subsequent layer(s). Light cure each additional 2mm increment for 10 seconds. The final layer should be cured for an additional 10 seconds.
9. Remove excess material with a *Fini*TM Polishing Disk or a fine grain diamond. Remove the proximal excess with diamond or tungsten carbide finishers or finishing strips. Check the occlusion and adjust it as necessary.
10. Polish the restoration to a high gloss using *Fini* Polishing disks.
11. For maximum surface sealing, to reduce surface wear, and to minimize microleakage at the bonding interfaces, following trimming and polishing apply *Protect-It*[®] Composite Surface Sealant to seal the restoration surface and surrounding tooth surface margins. (Please see the *Protect-It* Composite Surface Sealant instructions for step by step details.)

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