

Product Description:

Restorite Nano Hybrid Composite is light cured material, containing radiopaque glass filler and is indicated for placing fillings using adhesive techniques. It can be polished to a high luster. The chameleon effect matches the shade of the filling perfectly to the tooth structure.

Indications:

1. Direct anterior and posterior restorations in Black's class I, II, III, IV, and V cavities.
2. Indirect restorations such as inlays, onlays and laminate veneers
3. Extended fissure sealing in molars and premolars
4. Endodontic posts
5. Splinting mobile teeth
6. Adjusting the contours and shades to improve aesthetics

Contra Indications/Interactions:

If a patient has known allergies against or hypersensitivities to a component of this product, it may not be used or only under strict medical supervision by the doctor/ dentist. The dentist should consider known interactions and cross-reactions of the product with other materials already in the patient's mouth before using the product. Unpolymerized composite may cause skin allergies. The user must take adequate precautions.

Interactions with other substances:

As phenolic substances (such as eugenol) inhibit polymerization, do not use cavity liners (such as zinc oxide eugenol cements) containing such substances.

Procedure:

Pretreatment: Before commencing the treatment, clean the tooth with non-fluoride polishing paste (**Prime's Aster Propphy**). Use a Vita® shade guide to select the shade while the tooth is still moist.

1. Cavity preparation: Minimal-invasive preparation of the cavity as generally required for adhesive techniques. All enamel margins in the anterior region must be bevelled. Do not bevel the margins in the posterior region and avoid slice preparations. Spray the cavity with water to clean it, remove all debris and dry it. The cavity must be isolated. It is advisable to place a rubber dam.

2. Pulp protection/ Cavity liner: If an enamel-dentine adhesive is used, no cavity liner is required. In very deep cavities those areas in close proximity to the pulp must be coated with a calcium hydroxide material. **Prime's Restorite Cal** can be used.

3. Approximal contact areas: When filling cavities with approximal sections, place a transparent matrix and fix it in place.

4. Etching gel: Apply Prime's Etching / Restorite Etching Gel first to the enamel areas of the cavity and let it take effect for 30 seconds. Then fill the whole cavity (dentine) with the gel and let it take effect for a further 15 seconds. Then rinse the cavity thoroughly with a water spray and dry it with oil-free compressed air. Do not over dry the dentine. Dried, etched enamel surfaces have a chalky-white appearance and must not be contaminated before the bonding agent is applied. If the surface becomes contaminated with saliva, rinse and dry again and re-etch if necessary.

5. Applying the bonding agent: Apply **Prime's Restorite Bond 5G**. For procedure refer to the instruction of use of the bonding agent used.

Alternate Step: In case Self Etch Bond is used (**Prime's Restorite Bond 7G**). Proceed to this step after step 3. For application of self-etch bond agent refer to instruction of use of the bonding agent used.

6. Placing the composite in the cavity: Extrude the required amount of composite from the screw syringe, place it in the cavity with a standard metal instrument and contour it. The layers may not be thicker than 2 mm. Due to the effect of the oxygen in the air, a thin smear layer of unpolymerized material remains on the surface of each layer. This bonds the layers chemically and may not be touched or contaminated with moisture.

7. Curing: All shades must be light cured for 20 seconds per layer using a commercially available light curing unit. The light guide must be held as close as possible to the surface of the filling. Multiple surface fillings should be light cured from each side.

8. Trimming: Restorite Nano Hybrid Composite can be trimmed and polished immediately after curing using finishing diamonds, flexible disks, silicone polishers and polishing brushes. Check the occlusion and articulation and spot grind to eliminate high spots or undesirable paths of articulation from the surface of the filling. **Prime's Aster Compo** can be used for the final polishing.

Special notes:

The working time under a surgical lamp is approximately 2 minutes. In case of time-consuming restorations, the surgical lamp should be either temporarily moved away from the working area or the material should be covered by an opaque foil to prevent the composite from curing too early. Use a light-curing unit with an emission spectrum of 350 - 500 nm for the polymerization of this material. As the required physical properties can only be achieved when the lamp works correctly, its luminous intensity must be checked regularly as described by the manufacturer.

Storage & Shelf Life:

Store away from sunlight in a cool and dry place. Keep away from direct flame. Do not leave the syringe open. Close the screw syringes tightly after each use. Do not use after expiration date.

Disposal Conditions:

To be disposed of based on the prevailing rules of the country in which it is used.

Presentation:

Restorite Nano Hybrid: 4g Syringe x 1

Note: The material has been developed for professional dental use and it is to be used by a dental professional only. Application should be carried out strictly according to the instruction for use. User is responsible for testing the material for its suitability. The manufacturer cannot be held liable for damages resulting from failure to observe the indication and procedure of use as mentioned in the instructions for use. The user should not use material for any purpose not explicitly stated in this instruction sheet. Description and data constitute no warranty of attributes and are not binding.