

General Information

One Bulk Fill Restorative is a visible-light activated, restorative composite optimized to create fast and easy restorations. This material provides excellent strength and low wear for durability and improved esthetics. The material can be placed and cured up to 5mm increments. Filtek One Bulk Fill Restorative serves to enhance 3M ESPE line-up of restorative materials by improving the esthetic properties of a bulk fill material to allow for broader use in both posterior and anterior restorations. Filtek One Bulk Fill Restorative is applied in a range of tooth-colored shades. All shades are available in the composition of a non-agglomerated/non-aggregated 4 to 11 mm zirconia filler, an aggregated zirconia/silica cluster filler (composed of 20 mm silica and 4 to 11 mm zirconia particles), and a 12-dodecan-DMA. Filtek One Bulk Fill Restorative is applied to the tooth following use of a methacrylate-based dental adhesive, such as methacrylic acid ESPE, which permanently bonds the restoration to the tooth structure. Filtek One Bulk Fill Restorative is packaged in single-dose capsules and syringes.

Indications:

Filtek One Bulk Fill Restorative is indicated for use in:

- Direct anterior and posterior restorations (including occlusal surfaces)
- Core build-ups
- Splinting
- Indirect restorations including inlays, onlays and veneers
- Restorations of deciduous teeth
- Extended fissure sealing in molars and premolars
- Repair of defects in porcelain restorations, enamel, and temporaries

Precautionary Information for Patients

This product contains substances that may cause an allergic reaction by skin contact in certain individuals. Avoid use of the product in patients with known allergies. If you experience any adverse reaction, wash your hands with large amounts of water. If an allergic reaction occurs, seek medical attention as needed, remove the product if necessary and discontinue future use of the product.

Precautionary Information for Dental Personnel

This product contains substances that may cause an allergic reaction by skin contact in certain individuals. To reduce the risk of allergic response, use protective gloves and other techniques recommended.

Acrylics may penetrate certain types of gloves. If product contacts glove, remove glove and wash glove with soap and water, and then re-apply. If allergic reaction occurs, seek medical attention as needed.

3M ESPE SDS information can be obtained from www.3MSEPE.com/dental or contact your local subsidiary.

Instructions for Use**Preparation**

1. Prophy: Teeth should be cleaned with pumice and water to remove surface stains.

2. **Shade Selection:** Prior to isolation of tooth, select the appropriate shade(s) of Filtek One Bulk Fill Restorative using a standard VITAPAN® classic shade guide.

3. **Isolation:** A rubber dam is the preferred method of isolation. Cotton rolls and an evacuator can also be used.

Directions**Direct Restorations****Cavity Preparation:**

4.1 Anterior restorations: Use conventional cavity preparations for all Class III, IV and V restorations.

4.2 Posterior restorations: Prepare the cavity. Line and point angles should be rounded. No preparation of the base or other base material should be left in the internal form of the preparation that would interfere with light transmission, therefore, the hardening of the restorative material.

Placement of Matrix:

5.1 Anterior restorations: Mylar strips and crown forms may be used to minimize the amount of material used.

5.2 Posterior restorations: Place a thin sheet dentofilm, or a pre-contoured mylar or a pre-contoured metal band and insect wings firmly. Bumpers and bands should be proximal contour and contact area. Adapt the band to seat the gingival area to avoid overhangs.

Note: The matrix may be placed following the enamel etching and adhesive application steps if preferred.

6. **Pulp protection:** If a pulp exposure has occurred and the situation warrants a direct pulp capping procedure, use a minimum amount of calcium hydroxide paste followed by an application of 3M ESPE™ Vitebond™ or Vitebond Plus liner/bases may also be used to line areas of deep cavity excavation.

7. **Adhesive System:** To bond Filtek One Bulk Fill Restorative to tooth structure a 3M ESPE™ Single Bond Universal Adhesive is recommended. Refer to adhesive system product instructions for full instructions and precautions for the products. After curing the adhesive, continue to maintain isolation from blood, saliva and other fluids and proceed immediately to placement of the restorative material.

Note: Follow the adhesive system instructions for use for recommended silane treatment during repair of ceramic restorations, followed by the adhesive application.

Delivery:

Dispensing the Composite:

8.1 Syringe: Dispense the necessary amount of restorative material from the syringe onto the side of the hand piece handle, in a clockwise direction. To prevent clogging of restorative when dispensing is completed, turn the handle counterclockwise a half to stop paste flow. Immediately replace syringe cap. If not used immediately, the material should be protected from light.

8.2 **Single-Dose Capsule:** Insert capsule into the 3M ESPE™ Restorative Dispenser. Refer to separate restorative dispenser instructions for full instructions and precautions. Extrude restorative directly into cavity.

Placement:

9.1 Avoid intense light in the working field. Exposure of paste to intense light may cause premature polymerization.

9.2 Capsule: Start dispensing in the direction of the preparation, holding the handle perpendicular to the surface of the tooth. Turn the handle slowly so the cavity is filled and avoid lifting the tip out of dispensed material while dispensing, to reduce voids. When dispensing is completed, drag the capsule tip against the cavity wall while withdrawing from the operative field. For proximal areas, hold the tip against the proximal matrix to direct material flow into the proximal box.

9.3 Slightly overfill the cavity to permit extension of composite beyond cavity margins. Contour and shape with appropriate composite instruments.

10. **Curing:** This product is intended to be cured by exposure to a halogen or LED light with a minimum intensity of 500 mW/cm². In the case of a high intensity visible light source, such as a 3M ESPE curing light, Hold the light guide tip as close to the restorative as possible during light exposure. Use light cure chart to determine appropriate cure time and conditions for all shades.

Indication Increment Depth All lighting lights (with output 1000-2000 mW/cm²) LED lights (with output 550-1000 mW/cm²)

Core Build-up and Class II Direct Restorations 5 mm 20 sec occlusal, 20 sec buccal, 20 sec lingual 10 sec occlusal, 10 sec buccal, 10 sec lingual

All indications listed (except Core Build-up and deeper Class II Direct Restorations) 4 mm 40 sec 20 sec

Anterior or shallow Class I Restorations < 3 mm 20 sec 10 sec

Note: For Class II restorations, remove the matrix band prior to the buccal and lingual curing steps.

11. **Contouring:** Contour restoration surfaces with fine finishing diamonds, burs or stones. Contour proximally with 3M ESPE™ Sof-Lex™ Finishing Strips.

12. **Adjust Occlusion:** Check occlusion with a thin articulating paper. Examine each tooth and excise any contact. Carefully adjust occlusion by removing material with a fine polishing diamond or stone.

13. **Finish and Polishing:** Polish the 3M ESPE™ Sof-Lex™ Finishing and Polishing System.

Indirect Procedure for Inlays, Onlays or Veneers**Dental Operator Procedure**

11.1 Shade selection: Choose the appropriate shade(s) of Filtek One Bulk Fill Restorative prior to isolation.

1.2 Preparation: Prepare the tooth.

1.3 Impression: After preparation is complete, make an impression of the prepared tooth by following the manufacturer's instructions of the impression material chosen. An impression material, such as 3M ESPE™, may be used.

Laboratory Procedure

2.1 Pour the impression of the preparation with the die. Place pins at the preparation site at this time if a "triple tray" type of impression was used.

2.2 Separate the cast from the impression after 45 to 60 minutes. Place pins in the die and base, then cast as for a typical crown and bridge procedure. Mount or articulate the cast to its counter model on an adequate articulator.

2.3 If a second impression was not sent, pour a second cast using the same impression registration. This is to be used as a working cast.

2.4 Section out the preparation with a laboratory saw and trim away excess or, expose the margins so they can be easily worked. Mark the margins with a red pencil if needed. Add a spacer at this time if one is required.

2.5 Soak the die in water, then with a brush, apply a very thin coat of separating medium to the preparation, let it dry somewhat, and add another thin layer.

2.6 Add the first increment of composite to the floor of the preparation, stay short of the margins, and follow the cure recommendations described in the Direct Restorative section.

2.7 Place and add additional increments of composite. Allow for the last increment (margin) to include the contact area.

2.8 Place the die back into the articulated archer. Add the last increment of composite to the occlusal surface. Overfill very slightly mesially, distally, and apically. This will allow for the mesiodistal contacts and the proper occlusal contact with the opposing arch is brought into occlusion with the uncured resin. Lightly polish the margins and add another thin layer of the die to prevent adhering to adjacent surfaces. Finish the curing process following the cure times in the Direct Restoration section (Step 10).

2.9 With the occlusal contacts already established, begin removing the excess composite from around the points of contact. Develop the inlines and ridges as per the instructions.

2.10 Care must be taken when removing the prosthesis from the die. Break off small amounts of the die from around the restoration, the die stone should break away cleanly from the cured restoration, until all of the restoration is recovered.

2.11 Using the master die, check the restoration for flash, undercuts, and fit. Adjust as necessary, and then polish as noted above in Direct Restorative steps 11-13.

Dental Operator Procedure

3.1 Roughen the interior surfaces of the indirect restoration.

3.2 Clean the prosthesis in a soap solution an ultrasound bath and rinse thoroughly.

3.3 Cementation: Cement the prosthesis using a 3M ESPE™ resin cement system.

Storage and Use

1. This product is designed to be used at room temperature. If stored in cooler conditions, allow product to reach room temperature prior to use. Shelf life at room temperature is 36 months. Ambient temperature routinely higher than 27°C/50°F may reduce shelf life. See outer package for expiration date.

2. Do not expose restorative materials to elevated temperatures, or to intense light.

3. Do not store materials in proximity to eugenol containing products.

Disinfection

The multiple-use syringe dispenser is not intended for direct patient contact. Use new, uncontaminated gloves when handling the syringe dispenser. Directions for cleaning and low level disinfection of the syringe dispenser are provided below:

Step 1 (Cleaning):

Use a CaviWipes™, or equivalent cleaning wipe, and wipe the entire surface of the device thoroughly for at least 30 seconds and until no visible soil remains on the device.

Step 2 (Disinfecting):

Use a new CaviWipes™, or equivalent alcohol-quaternary ammonium disinfectant wipe, to disinfect the entire surface of the device by keeping wet for the contact time listed on the disinfectant label.

Disposable

See the Safety Data Sheet (available at www.3MSEPE.com/dental or through your local subsidiary for disposal information).

Customer Information

No person is authorized to provide any information which deviates from the information provided in this instruction sheet.

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