

Handmix

Directions for Use

Glass Ionomer Filling Cement

Oxford GI FILL is a non sticky condensable esthetic restorative glassionomer cement. Besides its high fluoride content and excellent biocompatibility it has also good chemical bonding to dentine and enamel. Therefore it requires no enamel and dentin etching. The early resistance to water uptake permits one visit treatment. Because of its radiopacity it ensures easy postoperative diagnosis.

Oxford GI FILL meets the requirements of **ISO 9917-1** (Specification for Dental Water based Cements).

Indications

- Class I, II and V restorations in deciduous teeth
- Non-load bearing small class I and class II restorations in permanent teeth
- Intermediate restorative and sandwich material for heavy stress bearing Class I and II cavities
- Class V restorations
- Core build-ups

Contraindications

- Pulp capping
- In rare cases the product may cause sensitivity in some people. In these cases discontinue to use the product and consult a physician

Side effects

Side effects are not known to date.

Application

1. Tooth Preparation

Prepare the tooth using standard techniques. Do not prepare thin edges.

If desired, place a matrix band.

Apply a conditioner according to the corresponding instructions to the bonding surfaces to remove the preparation smear layer. Rinse the conditioner thoroughly with water and dry gently. Do not desiccate.

Areas close to the pulp should be covered with a small amount of a calcium hydroxide liner (e.g. Oxford Cal).

2. Mixing

The **powder/liquid ratio** to achieve a suitable consistency is **3.6 /1.0**. This can be obtained by mixing **one level (blue) scoop of powder and one drop of liquid**. A condensable thick mix is required to minimize abrasive loss, but a glossy surface is also need for strong chemical bond strength. Using the appropriate powder / liquid ratio is therefore strongly recommended.

For accurate dispensing of **Oxford GI FILL Powder** lightly tap the bottle against the hand. Overfill the spoon with the powder, level the powder by using the collar at the top of the bottle and carry it onto the mixing pad. **Avoid compressing** powder into the spoon with the inside wall of the bottle.

For dispensing of **Oxford GI FILL Liquid** turn the bottle vertically with the tip about 5cm above the mixing pad. Steady your hand and squeeze the bottle gently to dispense the drops. If any bubbles are present, lightly tap the bottle with the fingers holding it. **Discount drops** that contain bubbles and are obviously not full-sized.

With a small spatula divide the powder into **2 equal parts**. Spread the liquid across the mixing pad and mix the first half with the whole of the liquid for **15 sec**. Add the second part and mix for **15 sec** to obtain a homogenous mixture. **Total mixing time is 30 sec**.

After use, close both powder and liquid bottles.

3. Filling

Remove moisture from the cavity surface either with a cotton pellet, or very gently with an air syringe blast. It is essential not to desiccate the dentin and enamel surfaces.

Mix the required amount of **Oxford GI FILL** and apply it into the prepared cavity by using a suitable placement instrument.

Please see to it, that no air bubbles will be incorporated.

Oxford GI FILL should be placed in the cavity within the **working time (1:20 minutes from start of mixing at 23 °C or 74°F)**. If desired, a matrix band may be used to form the contour.

Net setting time is about **4:00 minutes**.

After setting, immediately apply Oxford GI COAT. Immediately light cure for 20 seconds.

Close bottle immediately after use.

Note:

Slightly wet instruments simplify filling and modelling.

Higher temperatures will shorten the working time; lower temperatures will prolong the working time.

An overextended working time will cause the loss of adhesion to the dental enamel and the dentine.

Remove the matrix when the cement has achieved clinical set (approx. 4:00 minutes after application)

4. Finishing

Final finishing and polishing can begin from about **6 minutes** after start of mixing. Smooth with fine diamond burs, then polish with finishing and polishing discs with graded grain size.

Apply a thin layer of **Oxford GI COAT** to the final finished surface of the restoration. Immediately light cure for 20 seconds.

Close bottle immediately after use.

Instruct the patient not to expose the restoration to any pressure for one hour.

5. Conclusive Notes

The products are to be applied only by a dental professional in the manner as described in this instruction.

Do not use the products with patients who show an allergy to the material. In case of allergic reactions immediately stop the application, and advise the patient to consult a physician.

Do not allow the liquid or the mixture to contact the oral tissues or skin. In case of contact, remove the material with absorbent cotton soaked in alcohol and rinse with water.

Avoid eye contact of the liquid or the mixture mixture. In case of contact, immediately flush with water and seek medical treatment.

Do not mix the powder or liquid of **Oxford GI FILL** with any other glassionomer product.

6. Storage

Store **Oxford GI FILL** in a cool place at 4-25 °C (39-77 °F). Temperature should not exceed 25 °C (77 °F).

Do not use after expiration date (expiration date see packaging).

Warranty

First Scientific Dental Materials GmbH warrants this product will be free from defects in material and manufacture. First Scientific Dental Materials GmbH makes no other warranties including any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining the suitability of the product for user's application. If this product is defective within the warranty period, your exclusively remedy and First Scientific Dental Materials GmbH's sole obligation shall be repair or replacement of the First Scientific Dental Materials GmbH product.

Limitation of Liability

Except where prohibited by law, First Scientific Dental Materials GmbH will not be liable for any loss or damage arising from this product, whether direct, indirect, special, incidental or consequential, regardless of the theory asserted, including warranty, contract, negligence or strict liability.

Keep away from children!

For dental use only!

Caution:

Federal law restricts the sale of this device to or by the order of a dentist.



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