

Handmix

Directions for Use

Light Cure Ultra Fine Resin Modified Glass Ionomer Cement for Filling

Oxford GI Resin FILL UF is a light cured resin reinforced glass ionomer filling cement. Beside its high fluoride content and the excellent biocompatibility as glass ionomer cement **Oxford GI Resin FILL UF** has also good chemical bonding to dentine and enamel and a tight seal at the dentinal margins. Because of its radiopacity it ensures easy postoperative diagnosis.

Indications

- linings for composite fillings
- primary tooth fillings
- core build-ups
- dental neck fillings
- uniplanar and multiplanar temporary fillings
- small class I and II fillings

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 cavity. Rinse thoroughly with water and dry gently, but do not desiccate.

For pulp protection areas close to the pulp should be covered with a thin layer of calciumhydroxide material (e.g. Oxford Cal) or MTA cement (e.g. Oxford MTA).

Optional:

To improve adhesion particularly in case of deeper cavities the light cure bonding agent Oxford GI Resin PRIME VLC can be applied.

2. Mixing

The **powder/liquid ratio** to achieve a suitable consistency is **3.6 /1.0**. This can be obtained by mixing **one level (green) scoop of powder and 2 drops of liquid**.

For accurate dispensing of **Oxford GI Resin FILL UF Powder** shake the bottle to loosen the powder. 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 Resin FILL UF Liquid** turn the bottle vertically with the tip about 5 cm 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.

Use a small spatula to rapidly mix all the cement powder into the liquid. Usually one scoop powder/ 2 drops liquid should provide for sufficient amount of mixed cement. The mixed cement should be thixotropic and have a smooth consistency and glossy appearance. Total mixing time is **30 sec**.

After use, tightly close both liquid and powder bottles to prevent exposure to moisture.

3. Filling and Finishing

Mix the required amount of Oxford GI Resin FILL UF and apply it into the prepared cavity by using a suitable placement instrument. Please see to it, that no air bubbles will be incorporated.

Form the cement with a placement or forming instrument within the **working time (approx. 2:30 minutes)** from start of mixing at 23 °C or 74°F). A matrix may be used. Cure **for 20 sec** with a suitable dental light cure unit (wavelength range 400–500 nm, light intensity min. 1000 mW/cm²). Net setting time without any light is approx. 4:00 minutes (at 37°C / 99 °F).

If case of cavities with a depth of more than 2 mm curing in incremental layers is strongly recommended. Cure each layer separately. In order to improve the self-adhesion, this is very important for the first layer of 2 mm.

Note: Higher temperatures will shorten the working time, lower temperatures will prolong the working time. An exceeded working time will cause loss of adhesion to the enamel and the dentine.

Remove the matrix when the cement has achieved clinical set (approx. 4:00 minutes after application) and perform finishing under water spray using standard techniques.

Optional a layer of Oxford GI Coat can be applied after the finishing and subsequently light-cured for **20 seconds**.

4. 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.

An operator, who has a history of allergy to glass ionomer cements should not handle Oxford GI Resin FILL UF.

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 mixture. In case of contact, immediately flush with water and seek medical treatment.

Do not mix the powder or liquid of Oxford GI Resin FILL UF with any other glass ionomer product.

Direct contact with eugenol-based products is to be avoided. Eugenol inhibits the setting of LC glass ionomer cements.

5. Storage

Store Oxford GI Resin FILL UF in a cool and dark place at 4-25 °C (39-77 °F). Temperature should not exceed 25 °C (77 °F). Do not use after expiry date.

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 exclusive 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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