

Directions for Use

Glass Ionomer Luting Cement

Oxford GI CEM is a fluoride containing radiopaque classical glassionomer cement designed for cementing a wide variety of prosthetic appliances and materials. As a glassionomer cement, it features good chemical adhesion and biocompatibility.

Oxford GI CEM meets the requirements of **ISO 9917-1**.

Oxford GI CEM is designed for the following indications:

- cementing of crowns, bridges, inlays and onlays (all types: metal, resin, ceramic fused to metal and ceramic)
- liner under composite 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

Clean the cavity preparation with pumice and water. Rinse thoroughly and dry, but **do not** desiccate.

By using a cotton pellet apply a dentin conditioner for 20 sec to remove the smear layer. Rinse the dentin conditioner with water and dry it in an air stream, but **do not** desiccate.

Pulp capping with **Oxford GI CEM** is **contraindicated**. To deep areas of possible pulpal exposure apply a small amount of calcium hydroxide.

Prepare the carefully cleaned restoration according to the instructions of the manufacturer.

2. Mixing

The **powder/liquid ratio** to achieve a suitable consistency is **1,8 /1.0**. This can be obtained by mixing **one level (blue) scoop of powder and two drops of liquid**.

For accurate dispensing of **Oxford GI CEM 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 CEM 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.

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. Cementing

Apply the mixed cement to the prepared bonding surface of the restoration and seat immediately (**working time 1:25 min** from start of mixing at 23°C). Net Setting time is approx. **4:30 min**.

Remove excess cement at the first setting stage.

Note:

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 dentin.

4. Warnings

This product is to be applied only by a dental professional in the manner as described in this instruction.

Do not use **Oxford GI CEM** 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 glassionomer cements, should not handle **Oxford GI CEM**.

Do not allow the cement 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 cement mixture. In case of contact, immediately flush with water and seek medical treatment.

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

5. Storage

Store **Oxford GI CEM** 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.

