

## Directions for Use

### Advanced Glass Ionomer Cement for Luting

**Oxford GI CEM X** is a newly developed glass ionomer luting cement that shows, even in warm and humid climate, an excellent shelf life. **Oxford GI CEM X** is resin-free and shows very good biocompatibility.

#### Indications

- cementing of crowns, bridges, inlays and onlays (metal, ceramic and zirconia)
- 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

Prepare tooth in usual manner.

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).

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

##### 2. Dispensing and Mixing

The **powder/liquid ratio** to achieve a suitable consistency is **1.2 / 1.0**. This can be obtained by mixing **1 level scoop of powder and 2 drops of liquid**.

For accurate dispensing of **Oxford GI CEM X 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 X 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 half the powder into the liquid. Then mix the remaining powder into the mixed paste to achieve a glossy appearance. Total mixing time is **30 sec**.

**After use, close both liquid and powder bottles.**

##### 3. Cementing

Mix the required amount of **Oxford GI CEM X** and apply it to the prepared bonding surface of the restoration and seat immediately (**working time 1:30 min** from start of mixing at 23°C). Net setting time is about **4:30 min**.

Remove excess cement at the first setting stage.

Maintain isolation until the set of the cement is verified.

#### 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 dentine.**

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

#### 6. Storage

Store **Oxford GI CEM X** at room temperature (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 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.**



Manufacturer:

First Scientific Dental Materials GmbH, 25335 Elmshorn, Germany

