

## Directions for Use

### Dual Cure Flowable Composite Cement

**Oxford Flo CEM** is a dual cure easy flowing composite cement for permanent cementations. Oxford Flo CEM is a strongly radiopaque and relatively high filled composite of very high strength.

Oxford Flo CEM is based on methacrylate resin and inorganic filler particles of 0.05-1 µm. The total filler load is 61 % and the total filler volume 41 %. Oxford Flo CEM meets the requirements of ISO 4049.

### Indications of Oxford Flo CEM

Permanent cementation of:  
inlays, onlays, crowns, bridges and veneers

### Contraindications

The placement of Oxford Flo CEM is contraindicated

- If a dry working area or the recommended application technique are not possible
- If the patient is known to be allergic to any of the ingredients in Oxford Flo CEM.

### Side effects

Side effects are not known to date. In singular cases, Oxford Flo CEM may cause a sensitizing reaction in patients with a hypersensitivity to any of the ingredients. In these cases, the material should not be used.

Irritations resulting from direct contact with the pulp cannot be ruled out. Therefore protect pulp in deep cavities with a thin layer of calciumhydroxide material.

### Incompatibility with Other Materials

Do not use in combination with substances containing eugenol because eugenol inhibits the polymerization of the composite. Neither store the composite material in proximity of eugenol containing products, nor let the composite allow coming into contact with materials containing eugenol.

### Preparing the MINIMIX-Syringe

First Scientific Dental Materials GmbH only recommends for Oxford Flo CEM the use of mixing cannulas type Oxford Mix TIP(S), Minimix 1:1, black.

Remove the cap of the MINIMIX-syringe and throw it away (**do not use it again!**). It is replaced by a special 1:1 mixing cannula. Bleed the MINIMIX-syringe before applying the mixing cannula. Gently press the plunger until both components (base and catalyst) begin to flow out evenly. Make sure that the guidance of the MINIMIX-syringe is aligned with that of the mixing cannula and turn the cannula 90° clockwise until it locks in position. The material is now ready for application.

**The working time (23°C (74°F)) in the self cure mode is 2:00 minutes from start of mixing.**

#### Note:

Discard the first 3-5 mm of the extruded material. This must be done for each new mix.

Store used syringe with fixed used mixing cannula in the dark.

### Cementing of Inlays, Onlays, Crowns, Bridges and Veneers

#### 1. Preparing

Prepare the luting surface of the restoration according to manufacturer instructions.

#### 2. Cementing of the indirect restoration

##### 2.1. Cementing of Inlays, Onlays, Crowns and Bridges

Prepare the tooth surface and apply a bonding agent (e.g. Oxford Bond SE Dual) according to the corresponding user instructions. For cementing (preparation of the restoration see 1.) apply a uniform coating (0.5 mm) of Oxford Flo CEM on the luting side of the inlays,

onlays, crowns and bridges and – if necessary - on the prepared tooth areas. Seat the restoration under light pressure. Have the patient bite slowly into the habitual occlusion. Remove excess material. Light cure all marginal areas of the restoration for 20 seconds from each direction. The dual cure cement system will auto cure within 3 minutes.

#### 2.2. Cementing of Veneers

Optional try-in the veneers with Try-in Gel. Clean try-in Gel off the enamel surfaces, using pumice in a rubber cap. Avoid gingival contact to prevent bleeding. Rinse with water and dry with oil-free air. Isolate the teeth to be veneered with interproximal strips to protect adjacent teeth (not being veneered) from the etchant and bonding agent.

Apply Oxford Bond SE Dual according to the corresponding directions for use onto the enamel areas to be veneered.

Apply Oxford Flo CEM onto the prepared tooth surface in a thin layer.

Remove matrix strips prior to placing the veneers on the teeth.

After placement of the veneer, light cure for **20sec** with a dental curing unit through tooth structures and the veneer material. If the light through the veneer material is not sufficient or a light cure cannot guaranteed to be sufficient, Oxford Flo CEM selfcures within **3 minutes**. After curing finish and polish margins in the usual manner.

### Warnings

- Unpolymerized materials may have an irritating effect and may lead to a sensitizing reaction against methacrylates.
- Avoid contact with skin, mucous membrane and eyes.
- If the material comes into contact with skin, immediately wash with water and soap. If the material comes into contact with eyes, immediately rinse with copious amounts of water and seek medical advice if required.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.

### Storage

Do not store above 20 °C (68 °F). Store unopened material in the refrigerator.

Opened cartridges have to be used up within 3 months.

Do not use after expiration date (see expiration date on label/package)

### Warranty

First Scientific Dental Materials GmbH warrants this product will be free from defects in material and manufacture. First Scientific Dental Materials 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' sole obligation shall be repair or replacement of the First Scientific Dental Materials 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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