Oxford Flow SE

Oxford Scientific

Directions for Use

Light Cure Self Adhesive Flowable Composite

Oxford Flow SE is a self adhesive light cure flowable composite for anterior and limited posterior restorations. Beside its good mechanical properties, the physical properties of Oxford Flow SE are comparable to conventional flowable composites. The optimized flow behavior enables easy application of the material.

The self-adhesives properties of Oxford Flow SE require no etching, priming and bonding of enamel and dentine in the restorative therapy. For application as pit and fissure sealant, enamel etching for cleaning the surface is recommended.

Oxford Flow SE is based on methacrylates and inorganic fillers and meets the requirements of **ISO 4049.**

Indications of Oxford Flow SE
- Small class I restorations
- Lining of class I and II cavities
- Pit and fissure sealing
- Extended fissure sealing
- Filling of undercuts

Contraindications
The placement of Oxford Flow SE 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 Flow SE.

Side effects
Side effects are not known to date. In singular cases, Oxford Flow SE 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 calcium hydroxide liner.

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.

Application

1. Isolation
Rubber dam is the recommended method of isolation.

2. Color Matching
Clean the tooth with a fluoride-free polishing paste (e.g. flour of pumice with water) prior to preparation and color matching.
Ascertain the tooth shade while teeth are still moist and select the appropriate **Oxford Flow SE** shade.
Oxford Flow SE is shaded according to VITA®-Shades.

3. Cavity Preparation
After isolation prepare the cavity with minimal tooth reduction.
Deep excavations should be covered with a thin layer of a calcium hydroxide liner.
Areas next to the pulp should be optimally disinfected by photo activation (PAD).

4. Placement of Oxford Flow SE
Remove the cap from the Oxford Flow SE-syringe and attach an Oxford Needle TIP. Squeeze out the first small drop on a pad to ensure safe handling of Oxford Flow SE.

Small class I restorations and lining of class I and II
Place Oxford Flow SE with the Oxford Needle TIP in a thin layer directly onto the prepared areas. With the supplied brush work it into the entire cavity walls and beveled areas under slight pressure for 20s. Remove excess material around the margins with a brush.
Cure Oxford Flow SE as follows:
Lighter shades (e.g. A1, A2, B2) **20 seconds**
Darker shades (e.g. A3.5) **30 seconds**

After lining of the cavity walls and the beveled areas build the restoration with Oxford Flow SE in layers of max. 2 mm.
Light cure each increment separately.
Lighter shades (e.g. A1, A2, B2) **20 seconds**
Darker shades (e.g. A3.5) **30 seconds**

Pit and fissure sealing
Clean the enamel with a fluoride-free paste and rinse thoroughly. Dry in a water and oil-free air stream leaving a slightly moist shining surface on the enamel.

Note:
In addition to cleaning as described above, etching of enamel with a 37 % phosphoric acid etching gel is recommended. Etch the enamel surface for 15 – 20 seconds, rinse for 10 seconds and dry in a water and oil-free air stream leaving a slightly moist shining surface on the enamel.

Place Oxford Flow SE with the Oxford Needle TIP in a thin layer directly onto the prepared areas. With the supplied brush work it into the prepared areas under slight pressure for 20s. Remove excess material around the margins with a brush.
Cure Oxford Flow SE as follows:
Lighter shades (e.g. A1, A2, B2) **20 seconds**
Darker shades (e.g. A3.5) **30 seconds**

Check the occlusion and correct, if necessary.

Finishing
Contour with fine diamonds, stones or burs. Polish to high gloss with discs or rubber points. Interproximal finishing is accomplished by fine grit finishing strips.

Additional notes:
- The curing times are for Halogen curing lights with a light intensity of min. 500 mW/cm^2 or LED **curing lights with** a light intensity of min.1000 mW/cm^2.
- Do not use any resin to adjust viscosity of Oxford Flow SE.
- Contact of resin pastes with skin should be avoided, especially by anyone having known resin allergies.
- Contact with eyes may cause severe eye damage. Wear eye protection. In case of contact with eyes rinse immediately with plenty of water and seek medical advice.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.
- VITA® is a registered trade mark of the VITA-Zahnfabrik, Bad Säckingen, Germany

Storage
Do not use after expiration date (expiration date see packaging).
Close syringe immediately after use.
Do not store above 25 °C (77 °F).

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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