



## Schottlander Opus Silver Instructions for Use

### INTRODUCTION

Opus Silver is a metal reinforced glass ionomer (glass polyalkenoate) restorative cement, base and liner reinforced with spherical silver alloy and a light grey colour. It is in accordance with EN ISO 9917-1:2007 Classes 4.2B & 4.2C. It is opaque and radiopaque. Contains fluoride.

The powder is mixed with water to produce a filling material which adheres to dentine, enamel and set amalgam. It has low thermal conductivity and a coefficient of thermal expansion which is close to that of the tooth.

### INDICATIONS

Class I and II in deciduous and posterior permanent teeth. Base under amalgam and posterior composite restorations. In cavities where radiopacity is the prime requirement.  
As a core build up.  
Temporary replacement for cusp(s).

### CONTRA-INDICATIONS

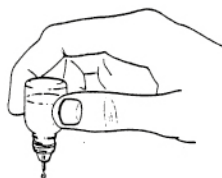
Pulp capping.  
In very deep cavities (approximately 0.5mm from the pulp) the dentine should first be covered with a calcium hydroxide liner.

### CAVITY PREPARATION

Use minimal tooth reduction wherever possible. Calcium hydroxide liners need only be used in deep cavities. Tooth Cleanser (25% polyacrylic acid solution) is applied to areas of unreduced tooth, to which adhesion is required, using a pledget of cotton wool for a maximum of 30 seconds. Wash with water and dry with oil-free air. If freshly cut enamel or dentine is contaminated with saliva, Opusfil Tooth Cleanser should be applied but only for 10 seconds before washing is started.

### PROPORTIONS

One drop of water per level **blue** scoop of powder.  
(see Dispensing & Mixing opposite).



### DISPENSING & MIXING

Fill the water dispenser supplied **to a maximum of two-thirds** with distilled or clean drinking water and place the plastic insert with the metal tube into the neck. Invert the powder bottle to 'fluff' the contents to ensure correct volume. Do not compress powder against side of the bottle with the scoop. Measure out a level scoop onto a clean glass slab by drawing a flat glass across the surface, taking care not to compress the powder.

Holding the bottle vertically (see diagram), dispense one drop of water per scoop of powder. Divide the powder in half. Using a stainless steel spatula mix one half with the water as quickly as possible taking about 5-10 seconds. Add the remaining powder, mixing quickly until a uniform putty-like consistency is obtained. **Do not add powder in small increments. Total mixing time 30 seconds.**

**NOTE:** The correct powder/water ratio is 11:1 by mass at  $23 \pm 1^\circ\text{C}$  and  $50 \pm 10\%$  relative humidity. The recommended temperature range for preparation is  $22-24^\circ\text{C}$ .

### PLACEMENT

Apply to cavity using normal instruments (non-stick aluminium instruments are particularly suitable). If problems of cement adhering to the steel instrument occur, dip the clean instrument either into the powder or methylated spirit. If stainless steel matrices are used, they should be lightly coated with petroleum jelly.

### Working time:

A minimum of 1 minute 45 seconds from start of mix at  $22-24^\circ\text{C}$ .

### Clinical Set Time:

A maximum of 3 minutes 30 seconds from end of mix.

### FINISHING

Best results are obtained by polishing with abrasive discs and stones at a subsequent visit using water spray lubrication. At 7 minutes after placement, the material is hard enough to finish using abrasive discs and stones, but petroleum jelly must be used as a lubricant to prevent excess heat and desiccation of the cement. For optimum polished surface, White Stone and alumina discs, should be used. After finishing, the surface may be coated with varnish for protection from moisture.

## STORAGE



The powder is protected against moisture uptake by a desiccant capsule. Always replace caps immediately after use. Store in a cool dry place (5-25°C).

## CLEANING

Clean the filling instrument or spatula immediately using running water.

## HEALTH AND SAFETY

### Warnings:

H319 – Causes serious eye irritation.

H411 – Toxic to aquatic life with long lasting effects.

### Precautions:

P280– Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313– If eye irritation persists: Get medical advice/attention.

For further information download a Safety Data Sheet from [www.schottlander.com](http://www.schottlander.com)



## TESTING

For test purposes the powder: liquid ratio is 1.10g: 0.10g at  $23 \pm 1^\circ\text{C}$  and  $50 \pm 10\%$  relative humidity. ISO 9917 setting time is maximum 3 minutes from end of mix at  $36-38^\circ\text{C}$ .

## LOT NUMBERS & EXPIRY DATES

The lot number and expiry date are shown on all outer containers. The expiry date is shown in year, month format. Do not use the product after this date.

**REF** 085-1 10g Powder

This product is specifically formulated for use in dentistry and is intended for use by dental professionals only.

Opus is an internationally registered trademark of Davis Schottlander & Davis Limited.



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