

**Product description:** ace-cem is the ideal radiopaque, self curing translucent, particle glass-ionomer luting material with excellent tooth adhesion high fluoride release and flowability, it is useful for a wide range of clinical applications. Ace-cemis available in a universal light yellow shade in powder and liquid kits.

**Composition:**

**Powder:** fluoro alumina silicate glass powder. **Liquid :** polyacrylic acid liquid (thin viscosity) **Indications:** cementation of metal-based inlays, onlays crowns and bridges.

Cementation of high strength (zirconia based) all ceramic crowns and bridges.

Cementation of stainless steel crowns

**Instructions for use:**

Powder/liquid ratio (0.19/0.12), mixing time (min. Sec) : 45-60 seconds, setting time (min. Sec) : 2min 30sec, (at 23±1°C from start of mixing) final finishing commencing time (after seating the restoration) : 5 min.

**Tooth preparation:**

Prepare tooth in usual manner. For pulp capping, use calcium hydroxide paste calcigel. Clean the prepared teeth with pumice and water. Rinse thoroughly with water. Remove excess moisture by blotting with a cotton pellet or gently blowing with an oil free air. Do not desiccate. Prepared surfaces should appear moist (glistening).

**Restoration preparation:** powder and liquid dispensing :

The standard powder to liquid ratio is 0.19/0.12 (1level scoop of powder to 2 drops of liquid.)

For accurate dispensing of powder lightly tap the bottle against the hand. Do not shake or invert.

Hold the liquid bottle vertically and squeeze gently. Close bottle immediately after use.

**Mixing :** dispense powder and liquid into the pad. Using the plastic spatula add all the powder to the liquid. Mix rapidly for 45-60 seconds. **Note:** when mixing larger amounts, divide the powder into two equal parts. Mix the first portion with all of liquid for 15 seconds. Incorporate the remaining portion & mix the whole thoroughly for 45 seconds (total 60 seconds).

**Applications:** immediately apply (within 1 minute after dispensing) to the surfaces to be coated using a micro applicators, do not air blow. **Note:** should the coated surfaces be contaminated with water, blood or saliva, wash and dry the surface and repeat the coating procedure.

**Cementation:**

Coat the internal surface of the restoration with sufficient cement and seat immediately. The working time is 2 minutes from start of mixing at 23±1°C (73.40±1°F). Higher temperature shorten working time. Maintain moderate pressure. Start removing excess cement when it feels rubbery.

Finishing can be started 4 minutes 30 seconds after seating the restoration.

**Contraindication:**

Ace-cem should not be used if the patient is known to be allergic to any of the ingredient used. Do not apply the material directly onto areas near the pulp or on to the exposed pulp as irritation may occur.

**Caution:**

In case of contact with oral tissue or skin, remove immediately with a sponge or cotton soaked in alcohol. Flush with water. To avoid contact, a rubber dam and/or local butter can be used to isolate the operation field from the skin or oral tissue. In case of contact with eyes flush immediately with water and seek medical attention. Do not mix powder or liquid with component of other glass ionomer cements. This product is not indicated for filling or core buildup.

**Storage conditions:** store at temperature between 10°C to 24°C. Close the cap carefully after use. Keep away from moisture. Shelf life not affected after opening if stored in a cool dry place. **Shelf life:** 3 years from date of manufacturing

**Presentation:**

Powder: 15g, liquid: 10ml, 1x spoon, 1 x mixing pad

**Manufacture By**

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