

QualiSense GI E CEM - Hand-Mix Classical Glassionomer Luting Cement

GI E CEM is a **fluoride containing radiopaque** classical strontium glassionomer cement designed for cementing a wide variety of prosthetic appliances and materials. As a glassionomer cement, it features good chemical adhesion and biocompatibility. It bonds to enamel, dentine, non-precious metals and porcelain.

The glassionomer cement is suitable for cementing all types of crowns, inlays, onlays, bridges, endodontic posts and orthodontic bands. It can also be used for amalgam bonding and as liner.

GI E CEM meets the requirements of **DIN EN ISO 9917-1** (Specification for Dental Water based Cements).

DIRECTIONS FOR USE

1. Tooth Preparation

Prepare tooth in usual manner. Clean prepared tooth with pumice and water only. Rinse thoroughly and dry, but **do not** desiccate.

By using a cotton pellet apply a dentine conditioner (e.g. **GI CONDITIONER**) for **20 sec** to remove the smear layer. Rinse the dentine conditioner with water and dry it in an airstream, but **do not** desiccate.

Pulp capping with **GI E CEM** is **contra indicated**. To deep areas of possible pulpal exposure apply calcium hydroxide liner.

2. Dispensing and Mixing

The **powder/liquid** ratio to achieve a suitable consistency is **1.8 / 1.0**. This can be obtained by mixing of **one scoop (blue colored) of powder and two drops of liquid**.

Note:

The spoon dosage is only an approximate reproduction of the nominal mixing ratio.

For accurate dispensing of **GI E CEM 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 **GI E CEM 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, tightly close both liquid and powder bottles to prevent exposure to moisture.

3. Cementation Technique

Mix the required amount of **GI E CEM**. Coat the prepared bonding surface of the restoration with **1 mm** of cement (**Do not overfill!**) and seat immediately (**working time 1:25 min from start of mixing at 23°C**). Seat the restoration by using steady, even pressure. 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 (**approx. 4:30 min**).

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 dentin.

4. Conclusive Notes

This product is to be applied only by a dental professional in the way as described in the instructions.

Do not use GI E CEM 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.

An operator, who has a history of allergy to glass ionomer-cements should not handle **GI E CEM**.

Do not allow the liquid or cement 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 liquid or cement mixture. In case of contact, immediately flush with water and seek medical treatment.

Do not mix the powder or liquid of **GI E CEM** with any other glass-ionomer product.

5. Storage

Store **GI E CEM** in a cool and dark place at 4-25 °C (39-77 °F). Temperature should not exceed 25 °C (77 °F).

Do not use after expiry date.

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

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Keep away from children!

For dental use only!