

QualiSense GI E - Hand-Mix

Classical Glassionomer Restorative Cement

Recommendations for Use

GI E is a non-sticky condensable esthetic restorative glassionomer cement. Besides its high fluoride content and excellent biocompatibility it has also good chemical bonding to dentine and enamel. Therefore it requires **no** enamel and dentin etching. The early resistance to water uptake permits one visit treatment. Because of its radiopacity it ensures easy postoperative diagnosis.

GI E meets the requirements of: **DIN EN ISO 9917-1** (Specification for Dental Water based Cements). GI E is designed for the following indications:

- Deciduous teeth: final restorative for Class I, II and V (according Black)
- Long term restorative in non-load bearing areas of Class I and II and Class V restorations
- Intermediate restorative and sandwich material for heavy stress bearing Class I and II cavities
- Core build-up material

DIRECTIONS FOR USE

1. Tooth Preparation

Clean the cavity preparation with pumice and water. Rinse thoroughly and dry, but **do not** desiccate.

If desired, place a matrix band.

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 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 **3.6 / 1.0**. This can be obtained by mixing of **one level scoop (blue colored) of powder and one drop of liquid**.

Note:

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

A condensable thick mix is required to minimize abrasive loss, but a glossy surface is also need for strong chemical bond strength. Using the appropriate **powder / liquid** ratio is therefore strongly recommended.

Shake the bottle to loosen the powder. Overfill the spoon with the powder, level the powder for using the collar at the top of the bottle and carry it onto the mixing pad provided. **Avoid compressing** powder into the spoon with the inside wall of the bottle.

Turn the liquid bottle vertically with the tip about **5cm** above the mixing pad. Steady your hand and squeeze the bottle gently to dispense one drop. If any bubbles are present, lightly tap the bottle with the fingers holding it. **Discard drops** that are obviously not full-sized.

After use, tightly close both liquid and powder bottles to prevent exposure to moisture.

Using a spatula, divide the powder into **2 equal parts**. Spread the liquid across the mixing pad and mix the first half with the whole of the liquid for **15 sec**. Add the second part and mix for **15 sec** to obtain a homogenous mixture. **Total mixing time is 30 sec**.

3. Filling

Remove moisture from the cavity surface either with a cotton pellet, or very gently with an air syringe blast. It is essential not to desiccate the dentin and enamel surfaces.

Place the mixed cement with a suitable instrument within the **working time (1:20 min. at 23°C or 74°F, from begin of mixing)** into the cavity. Please see to it, that no air bubbles will be incorporated.

Form the material with a placement or forming instrument. Optional use a matrix strip to form the surface.

Note:

Slightly wet instruments simplify filling and modelling.

Higher temperatures will shorten the working time, lower temperatures will prolong the working time

Net setting time is about **4 minutes**.

If a matrix strip is placed, don't remove it before end of net setting time.

Immediately after setting, a varnish should be placed onto the surface of the restoration.

4. Finishing

Final finishing and polishing can begin under water spray for about

6 minutes from the start of the mixing by progressing from steel burs at low speed to superfine diamond points. Apply a final coating of varnish to the final

finished surface of the restoration and instruct the patient not to expose it to any pressure for one hour.

5. 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** 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 glassionomer-cements should not handle **GI E**.

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** with any other glassionomer product.

6. Storage

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

Do **not** use after expiry date.

Warranty

DS Dental Supply GmbH warrants this product will be free from defects in material and manufacture. DS Dental Supply 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 exclusively remedy and DS Dental Supply GmbH's sole obligation shall be repair or replacement of the DS Dental Supply GmbH product.

Limitation of Liability

Except where prohibited by law, DS Dental Supply 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!