

## QualiSense GI R - HandMix

### Glass Ionomer Restorative Cement for Permanent Fillings

#### Recommendations for Use

GI R is a newly developed glass ionomer restorative cement that shows, even in warm and humid climate, an excellent shelf life. GI R is resin-free and shows very good biocompatibility.

#### Indications

- Class I and II restorations in deciduous teeth
- Non-load bearing small class I and class II restorations in permanent teeth
- Intermediate restorations material for heavy stress situations in class I and class II cavities
- Base material for class I and II cavities according to sandwich technique
- Class V and root surface restorations
- Core build-ups

#### 1. Tooth Preparation

Prepare the tooth using standard techniques. Do **not** prepare thin edges.

If desired, place a matrix band.

Apply **GI CONDITIONER** with a cotton pellet for **20 sec** to the bonding surfaces to remove the preparation smear layer. Rinse **GI CONDITIONER** thoroughly with water and dry gently. Do **not desiccate**.

Areas close to the pulp should be covered with a small amount of a calcium hydroxide liner (e.g. **CH LINER**).

#### 2. Dispensing and Mixing

The **powder/liquid** ratio to achieve a suitable consistency is

**2.6 / 1.0**. This can be obtained by mixing **1 level scoop of powder and 1 drop of liquid**.

For accurate dispensing of **GI R Powder** lightly tap the bottle against the hand. 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 provided. **Avoid compressing** powder into the spoon with the inside wall of the bottle.

For dispensing of **GI R Liquid** turn the bottle vertically with the tip about **5 cm** 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, close both powder and liquid bottles.**

#### 3. Filling

Mix the required amount of **GI R** and apply it into the prepared cavity by using a suitable placement instrument.

Please see to it, that no air bubbles will be incorporated.

**GI R** should be placed in the cavity within the working time (**1:30 minutes from start of mixing at 23 °C or 74°F**). If desired, a matrix band may be used to form the contour.

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

After setting, immediately apply **LC GI COAT** and light cure for **20 seconds**.

**Close bottle immediately after use.**

If a light cure varnish is not desired, apply **X-FINISH** and gently blow dry.

**Close bottle immediately after use.**

#### 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 dentine.

Remove the matrix when the cement has achieved clinical set (approx. **4 minutes** after application)

#### 4. Finishing

Final finishing and polishing can begin from about **6 minutes** after start of mixing. Smooth with fine diamond burs, then polish with finishing and polishing discs with graded grain size.

Spray preparation dust away with water and dry the surface in an oilfree airstream.

Apply a thin layer of **LC GI COAT** to the final finished surface of the restoration. Immediately light cure for **20 seconds**.

**Close bottle immediately after use.**

If a light cure varnish is not desired, apply **X-FINISH** and gently blow dry.

**Close bottle immediately after use.**

Instruct the patient not to expose the restoration to any pressure for one hour.

#### 5. Conclusive Notes

The products are to be applied only by a dental professional in the manner as described in this instruction.

Do **not** use the products 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.

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

Do **not** mix the powder or liquid of **GI R** with any other restorative cement components.

#### 6. Storage

Store the products at room temperature. 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

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**Keep away from children!**

**For dental use only!**