

Product description

A light cured resin reinforced glass ionomer luting cement. In addition to its excellent fluoride release and biocompatibility as a glass ionomer cement, it provides strong chemical bonding to dentin, enamel, and the restoration, ensuring a tight seal at the dentinal margins. Because of its radiopacity it ensures easy postoperative diagnosis. This meets the requirements of ISO 9917-2.

Indications/Intended use

Cementing of crowns, bridges, inlays and onlays (all types: metal, resin, ceramic fused to metal and ceramic)

Performance features

The performance features of the product meet the requirements of the intended use.

Contraindications

- In singular cases, the material may cause a sensitizing reaction in patients with hypersensitivity to any of the ingredients. In these cases, the material should not be used further on.
- Direct and indirect pulp capping

Patient target group

Persons who are treated during a dental procedure.

Intended users

This medical device should only be used by a professionally trained dental practitioner.

Interaction with other materials

Avoid direct contact with products containing eugenol since eugenol impairs the setting.

Do not mix the powder or liquid with any other glass ionomer product.

Application

1. Tooth Preparation

Prepare tooth in usual manner.

For pulp protection areas close to the pulp should be covered with a thin layer of pulp capping material or MTA cement.

2. Dispensing and Mixing

The **powder/liquid ratio** to achieve a suitable consistency is **2.0 /1.0**. This can be obtained by mixing **one level (blue) scoop of powder and 3 drops of liquid**.

Note:

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

For accurate dispensing of the 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.

If any bubbles are present in the liquid, lightly tap the bottle with the fingers holding it. Discard drops that contain bubbles and are obviously not full-sized.

For dispensing of the 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 one drop.

Use a small spatula to rapidly mix all the cement powder into the liquid. The mixed cement should be thixotropic and have a homogenous consistency. Total mixing time is **30 seconds**.

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

3. Cementing

Avoid water and saliva contamination during application and setting of the cement. For a dry working area adequate isolation of the tooth is required.

Prepare the restoration according to manufacturer instructions.

Mix the required amount and apply into the lumens of the crown or bridge (approx. half) resp. to the bonding surface of inlays or onlays in a thin layer. Seat the restoration immediately (**working time 2:30 min** from start of mixing at 23°C). Net setting time without any light is approx. 4:00 min.

Remove excess cement at the first setting stage.

Maintain isolation until the set of the cement is verified (ca. 4:00 minutes). Setting can be optimized with **20 seconds** light cure with a suitable dental light cure unit (wavelength range 400–500 nm, light intensity min. 1000 mW/cm²).

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 enamel and the dentine.

4. Additional Notes/Warnings

- The material can also be used as liner under composite restorations.
- Unpolymerized material may have an irritant effect and can lead to sensitization against methacrylates.
- Avoid contact with skin, mucous membrane and eyes.
- If the material comes into contact with skin, in case of contact, remove the material with absorbent cotton soaked in alcohol and rinse with water. If the material comes into contact with eyes, immediately rinse with copious amounts of water and seek medical advice if required.
- Commercial medical gloves do not protect against the sensitizing effect of methacrylates.
- Keep away from children!

5. Storage

Store 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.

Composition

Powder: Dental glass, photo initiators

Liquid: polyalkenoate acid, methacrylates

Disposal

Disposal of the product according to local authority regulations.