



ZIRCONOMER IMPROVED

EN Instructions for use

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SD1314



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EN Zirconia Reinforced Glass Ionomer

ZIRCONOMER IMPROVED is a zirconia reinforced restorative glass ionomer designed for a range of restorations, Class I, Class II, and Class V cavities and core build-up. It is suitable for atraumatic restorative treatment (ART) techniques and geriatric restoration.

SHADE

U (Universal)

COMPOSITION

POWDER: Fluoroaluminosilicate glass, Zirconium oxide, pigments and others

LIQUID: Polyacrylic acid solution and Tartaric acid

INDICATIONS

- Class I and II cavities in deciduous teeth
- Class I and II restoration in selected permanent teeth
- Repair of amalgam restored teeth when either tooth or restoration has fractured
- In all classes of cavities where radiopacity is a prime requirement
- Core build-up
- Repair of crown margins

PRECAUTIONS

1. Do not use this product on patients with known allergies to this material and/or glass ionomer cements.
2. Operators with known allergies to this material and/or glass ionomer cements should not use this product.
3. If any inflammation or other allergic reactions occur on either patient or operator, immediately discontinue use and seek medical advice.
4. Use protective plastic gloves and glasses to avoid sensitization to this product. In case of accidental contact with oral soft tissue or skin, immediately blot with alcohol moistened cotton ball, and rinse with plenty of water.
5. In case of contact with eyes, immediately flush the eyes with plenty of water and seek medical advice.
6. This product is intended for use by dental professionals only.

DIRECTIONS FOR USE

A. Filling

A-1. Cleaning of tooth surface

Thoroughly clean the tooth surface to remove plaque.

A-2. Cavity preparation

Prepare the cavity following the standard method.

A-3. Moisture control

Isolate with a rubber dam.

A-4. Pulp protection

In the case where the pulp is exposed or the affected area is close to the pulp, cap with calcium hydroxide etc.

A-5. Dispensing Powder and Liquid

Dispense two level scoops of powder with the measuring scoop provided onto a mixing pad. Then, dispense one drop of liquid separately.

Standard Powder to Liquid ratio: 3.6 g/1.0 g (3.6:1.0 m/m)

- Gently shake the powder bottle to include air in the powder before dispensing. Use the measuring scoop provided and level off the powder for accurate dispensing.
- Invert the liquid bottle prior to use to dispense drops of bubble-free liquid.
- Remove any liquid plugging the nozzle with a wet gauze etc. for accurate measuring.
- Tightly close the bottle caps (powder and liquid) immediately after each use to prevent any potential moisture contamination.

READ CAREFULLY BEFORE USE

A-6. Mixing

Divide the dispensed powder into 2 equal portions; introduce the first half to the dispensed liquid and mix for 5-10 sec. with the plastic spatula provided. Then, add the remaining half and mix until it reaches a thick putty-like consistency. Mixing must be completed within a total of 30 sec.

Working time (23 °C)	1' 30"	From start of mixing
Setting time (37 °C)*1	3' 00"	From end of mixing

*1 : Measured in accordance with ISO 9917-1:2007 Dentistry - Water-based cements - Part 1: Powder/Liquid Acid-base cements

- Do not divide the dispensed powder into more than 3 portions to avoid degradation of the performance of this material.
- Temperatures higher than 23 °C will shorten the working time, and those lower than 23 °C will extend it.
- Do not add extra liquid while mixing as this will affect material properties.

A-7. Filling and moisture control

Rinse the prepared cavity with water and dry. Then, fill in the mixture using an instrument and shape as desired.

- When using a matrix strip, apply some cocoa butter (petroleum jelly) before placing it.
- When restored area cannot be protected from moisture completely, the surface of the set material might become whitish after contouring. Thus, apply the material oversized by about 0.5 mm.

A-8. Finishing and polishing

Best results are obtained by polishing with abrasive discs and stones at a subsequent visit using water spray lubrication. At 7 minutes after placement, the material is hard enough to finish using abrasive discs and stones, but cocoa butter (petroleum jelly) must be used as a lubricant to prevent excess heat and desiccation of the cement. After finishing, the surface should be coated with cocoa butter (petroleum jelly) for protection against moisture.

B. Core build-up

B-1. Preparation of an abutment tooth

Prepare the abutment tooth following the standard method.

B-2. Isolate the tooth, protect the pulp if required and mix following the procedures mentioned under "A-3" to "A-6".

B-3. Core build-up and moisture control

Build up the core following the standard method. When cement mixture loses luster, apply cocoa butter (petroleum jelly).

B-4. Preparation of abutment tooth

Prepare the abutment tooth following the standard method.

NOTE ON USE

1. Do not mix this product with any other products.
2. Follow the instructions for use of each dental material, instrument or equipment to be used in conjunction with this product.
3. Do not use this product for any purposes other than specifically outlined in these instructions for use.
4. Use this product within the expiration date indicated on the package and container.
(Example ☐ YYYY-MM-DD → Year-Month-Date of the expiration date)

STORAGE

Store at room temperature (5-25 °C). Avoid high temperature and high humidity. Keep away from direct sunlight.