

# SECURE CORE Z

## INTRODUCTION

*SECURE CORE-Z is a newer class of Zirconia reinforced, chemically bonding restorative material, that offers outstanding strength and durability. It incorporates homogeneously dispersed fine Zirconium particles, offering high tolerance to occlusal load and improved abrasion resistance making it ideal for permanent posterior restorations where strong structural cores are needed. It is highly biocompatible and offers sustained fluoride release that helps reduce caries incidence.*

## INDICATIONS

- As a bulk fill restorative for Class I and Class II cavities.
- As restorative for Class I and II cavities in deciduous teeth.
- As core build up material under crowns.
- For long term temporary replacement for cusp(s).
- For repair of amalgam restored teeth when either tooth or restoration has fractured.
- As base under amalgam and posterior composite restorations.
- On the root surfaces for locating overdentures.
- Repair of crown margins.

## CLINICAL APPLICATION

### 1. **Cleaning:**

Thoroughly clean the tooth surface with pumice and water to remove biofilm.

### 2. **Tooth Surface Preparation:**

Prepare tooth surface using standard preparation techniques. Use of rubber dam is recommended to isolate the prepared tooth. A suitable tooth conditioner is applied using a pledget of cotton wool for 30 sec to areas of unreduced tooth to which adhesion is required. Wash with water and blot dry

### 3. **Pulp Capping:**

If a cavity is deep, protect with an appropriate pulp capping agent.

### 4. **Matrix Placement:**

Place a matrix band in the case where the cavity involves proximal area as instructed by manufacturer.



- 5. Powder / Liquid Dispensing:** The recommended P/L ratio is 2 scoop powder : 1 drop liquid
- Use clean, dry glass slab or paper pad.
  - Tap and invert the bottle to fluff the powder for accurate dispensing.
  - Measure two scoop of powder taking care not to compress powder against the side of bottle with the scoop. Remove excess powder from the scoop using the straight edge of the semi-circular insert. Dispense the powder onto glass slab/paper pad and tightly close the bottle cap immediately after use.
  - Dispense one bubble free drop of liquid near to the dispensed powder onto glass slab/paper pad. Remove any bubble with the help of a suitable instrument. Tightly close the bottle cap immediately after use..

**6. Mixing:**

Incorporate half of the powder into the liquid drop and mix rapidly for 5-10 sec followed by incorporating the remaining half for remaining time. **DO NOT ADD POWDER IN SMALL INCREMENTS.** The recommended mixing, working and setting times are mentioned below:

Mixing Time	Working Time (at 23+1 °C)	Setting Time (at 37+1 °C)
30 sec	1 min 30 secs (minimum)	3 min 30 secs (maximum)

**7. Material Application:**

Pack the mix onto the cavity using suitable non-sticky instruments. To avoid cement adhering to the instrument, dip the clean instrument into powder. Avoid saliva contamination for 10 minutes after placement. Contour the restoration using suitable instrument and apply matrix if required. Immediately after matrix removal, protect the exposed surface of GIC by applying a thin layer of a light cured resin/varnish with a suitable brush and cure for 10 seconds. Reapply the same to ensure optimum aesthetics.

**8. Finishing and Polishing:**

For best results perform final finishing at subsequent visits. However finishing and polishing can be carried out 10 minutes after placement using abrasive discs or stones. After finishing it is recommended to coat the surface with glaze or varnish for protection from moisture.



## PRECAUTIONS

1. Do not expose patients or users known to be allergic to this product or glass polyalkenoate cement.
2. Use medical (dental) gloves, face masks and protective glasses to avoid sensitization to powder, liquid and mixture of this product.
3. Avoid contact of liquid and powder with eyes. In case of eye contact rinse immediately with plenty of water. Seek medical attention if irritation or symptoms persist.
4. In case of contact with soft tissue or skin remove immediately with cotton soaked in alcohol and rinse with plenty of water. Seek medical attention if irritation or symptoms persist
5. In case of ingestion, seek medical attention.
6. Do not mix powder or liquid with components of other GICs.
7. Avoid any contamination of restoration with blood, saliva or sulcus fluid during application.
8. For more information read the safety data sheet (SDS).

## STORAGE

Store in a cool dry place between 5-25°C

### Caution:

Always replace caps immediately after use.

The moisture ingress can adversely affect shelf life. The powder is protected by a desiccant capsule that turns from orange to green with moisture ingress.

## ADDITIONAL NOTES

1. Do not add extra liquid when mixing as this will affect properties of the material.
2. For best results use good quality stainless steel or "Silicate" spatula.
3. Clean the nozzle of the bottle with wet gauze to remove any hardened liquid plugging in the opening of the bottle.
4. If stainless steel matrices are used, they should be lightly coated with petroleum jelly..

## EXPIRY DATE

- The expiry date is shown in DD/MM/YY format on the pack.
- Do not use the product after this date.



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**wizdent**  
THE FINE ART OF DENTISTRY

**PACKAGING:**

Powder Bottle 15g

Liquid Bottle 10 ml

Mixing Pad 30 leaves

Dispensing Scoop 1 N

**SHADE**

A2↔A3

**SPECIALLY FORMULATED FOR USE IN DENTISTRY**



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