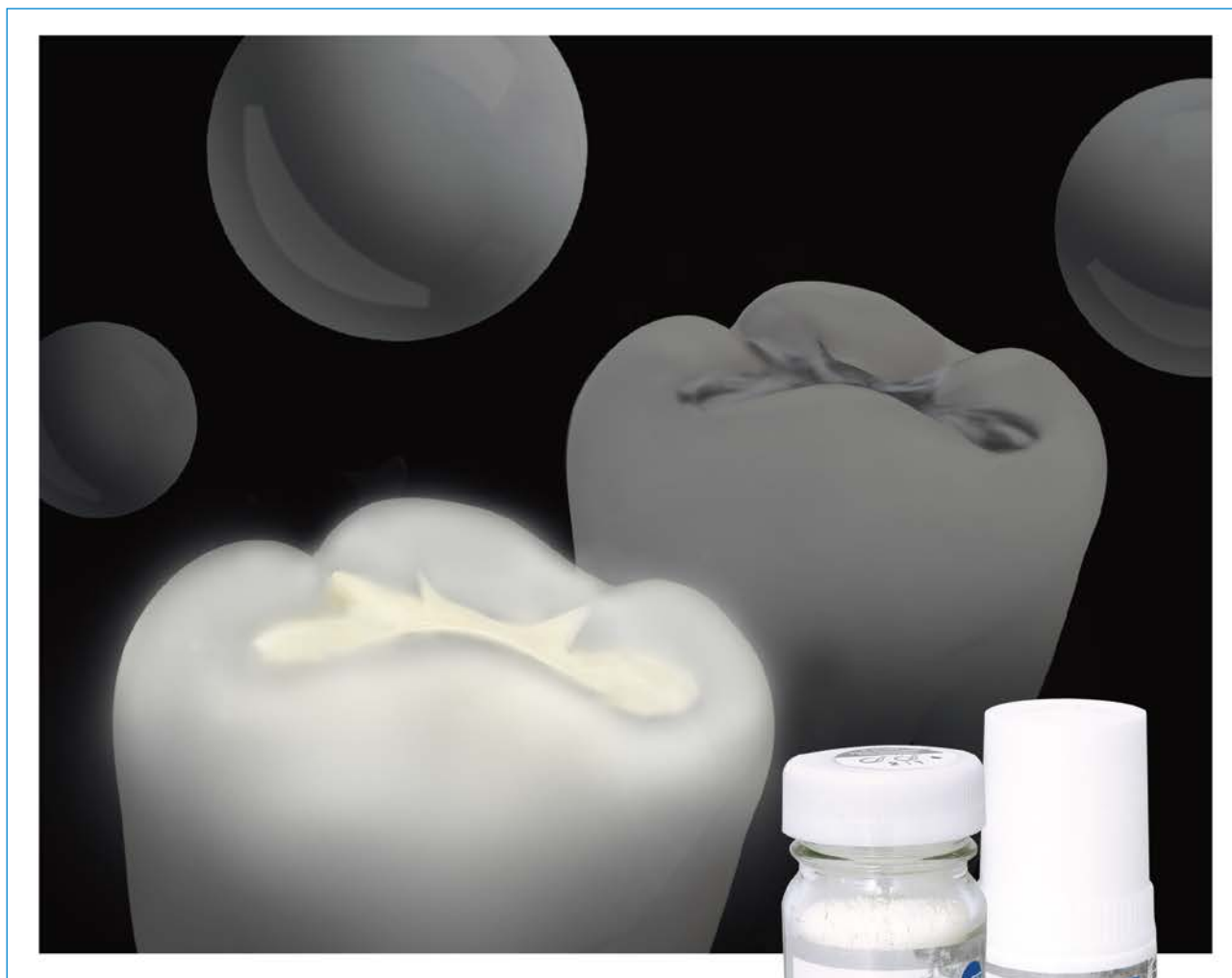


# ZIRCONOMER

IMPROVED

Zirconia Reinforced Restorative



# ZIRCONOMER

## IMPROVED

*new improved, eco friendly white amalgam  
now in tooth color ...*

**Zirconomer Improved** is developed as a reliable and durable tooth coloured zirconia reinforced posterior restorative. Novel nano-sized zirconia fillers enhance material translucency for a closer shade match to natural tooth with superior handling characteristics for a simple, easy and fast bulk placement.

Considered a safe alternative to silver amalgam, it exhibits the strength and durability of amalgam and protective benefits of glass ionomer, while eliminating the hazards of mercury.

Strong, durable and fluoride rich, **Zirconomer Improved** is ideal as a bulk fill restorative for structural cores and bases as well as cases with high caries risk.

### Indications

The diagram illustrates the various applications of Zirconomer Improved. At the center are two product containers: a jar of 'ZIRCONOMER IMPROVED POWDER 100g' and a tube of 'ZIRCONOMER IMPROVED LIQUID 50ml'. Red dotted lines connect these products to several dental scenarios:

- Class I & II cavities:** Two diagrams showing the material filling cavities on the occlusal surface of a tooth.
- Structural base in sandwich restorations:** A diagram showing a layer of the material placed between a core and a veneer.
- As a strong core under all indirect restorations:** A diagram showing a core of the material supporting a crown on a tooth.
- As long-term temporary replacement for cusps:** A diagram showing a large filling on a tooth, intended to replace a missing cusp.
- Excellent for ART techniques:** A diagram showing the material being placed into a cavity using a spoon-like instrument.
- Paediatric and Geriatric restoration:** A photograph of a smiling elderly woman and a young child, indicating the material's suitability for these age groups.

## FEATURES OF ZIRCONOMER IMPROVED

- Remarkable edge strength and excellent marginal adaptation
- Self-adhesive with tooth-like co-efficient of thermal expansion
- Sustained fluoride protection, especially in cases with high caries risk
- Excellent mixing & handling qualities
- Higher translucency for a closer match to natural tooth
- Durability like silver amalgam without the hazard of mercury
- Excellent resistance to abrasion & erosion

### Superior Mechanical Properties

**Zirconomer Improved** outperforms restorative reinforced glass ionomer in stress bearing posterior restorations with notably high compressive strength and dimensional stability for long-lasting performance.

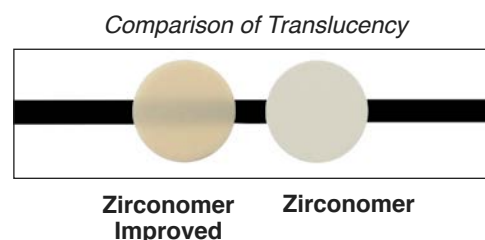
Mechanical Properties	ISO Limit for Amalgam	Zirconomer Improved
Compressive strength @ 1 hour (MPa)	> 80 MPa	149
Compressive strength @ 24 hours (MPa)	> 300 MPa	326
Creep	< 2%	0.01%
Dimensional stability	-0.10% to +0.20%	0.06%

Exceeds standard ISO 24234 Amalgam Specifications

(Data Source : Shofu R&D)

### Remarkable Translucency

**Zirconomer Improved** is formulated with zirconia nano fillers that impart a higher level of translucency for a closer match to natural tooth colour, ideal even for cores requiring coverage with high end all-ceramic restoration.



## Durable Posterior Restorations

**Case 1** Maxillary first molar Class II cavity



**Case 2** Maxillary first premolar Class II cavity



Photographs courtesy of Dr. Sushil Koirala

## Instruction for use

<b>Powder / Liquid Ratio</b>	3.6 / 1.0 (2 Scoops : 1 Drop)
<b>Working Time: 23°C</b>	1 min 30 sec (from start of mixing)
<b>Net Setting Time: 37°C</b>	3 mins (from end of mixing)

## Order Information



**ZIRCONOMER IMPROVED 1-1 Set**  
(12gm / 5ml) [PN 3130]

## Related Products



**Cocoa Butter 10gm [PN 1139]**



**Tooth Conditioner**  
10gm ( 9.1 ml ) [PN C0021]