

# ZIRCONOMER

**IMPROVED**

Zirconia-reinforced glass ionomer  
restorative material



# The tooth-coloured "amalgam" – mercury-free, durable

Zirconomer Improved is a reliable and durable, zirconia-reinforced, tooth-coloured posterior restorative. Innovative zirconia fillers give your restorations not only remarkable mechanical properties, but also increased translucency for a better shade match to natural teeth. And excellent handling characteristics make Zirconomer Improved an ideal material for easy and quick bulk placement.

Zirconomer Improved is a safe and successful alternative to silver amalgam: It combines the strength and durability of amalgam with the protective effects of glass ionomers, while eliminating the health hazards associated with mercury after placement, during removal and throughout the life of a restoration.

Thanks to this combination of superior strength, high durability and sustained protection by fluoride release, Zirconomer Improved is the material of choice for permanent posterior restorations in patients with high caries incidence and cases in which strong cores and bases are particularly important.

## Indications



and eco-friendly

- Remarkable edge strength, excellent marginal integrity, tooth-like coefficient of thermal expansion
- Self-adhesion to the tooth structure without pretreatment
- Fluoride release for sustained protection against recurrent caries
- Excellent mixing and handling properties
- Increased translucency for a better match to natural teeth
- Durability of silver amalgam without the health hazards of mercury
- Outstanding resistance to abrasion and erosion

### Superior mechanical properties

Zirconomer Improved outperforms conventional reinforced glass ionomer restoratives in stress-bearing posterior restorations thanks to its remarkable compressive strength and dimensional stability – important criteria for long-term success of your restorations.

| Mechanical properties            | ISO limits for amalgam* | Zirconomer Improved |
|----------------------------------|-------------------------|---------------------|
| Compressive strength at 1 hour   | > 80 MPa                | 149                 |
| Compressive strength at 24 hours | > 350 MPa               | 326                 |
| Dimensional stability            | -0.10 % to +0.20 %      | 0.06 %              |

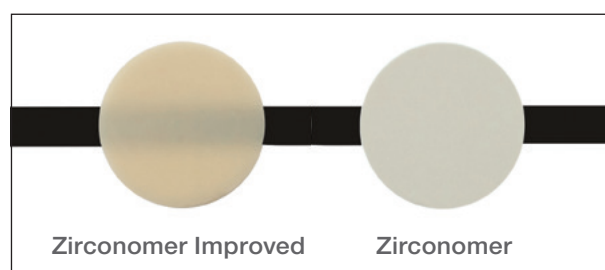
according to the specifications of ISO standard 24234:2015 for amalgam

Source: R&D SHOFU INC., Japan

### Visible increase in translucency

Zirconomer Improved contains zirconia fillers with higher translucency, for a better shade match to natural teeth in the oral environment. This also makes it ideal for core build-ups covered with high-end all-ceramic restorations.

Comparison of translucencies



## Durable posterior restorations



### Case 1

Maxillary first molar,  
class II cavity



### Case 2

Maxillary first  
premolar,  
class II cavity

Photos: Dr Sushil Koirala

## Instruction for use

|                         |               |                      |
|-------------------------|---------------|----------------------|
| Powder : liquid ratio   | 3.6 g : 1.0 g | 2 scoops : 1 drop    |
| Working time (at 23 °C) | 1 min 30 secs | from start of mixing |
| Setting time (at 37 °C) | 3 mins        | from end of mixing   |

## Order information



### Zirconomer Improved 1-1 Set

Powder 12 g, liquid 5 ml,  
measuring scoop, spatula, mixing pad  
PN 3130



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