

ZIRCONOMER

Zirconia Reinforced Restorative



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With the decline in popularity of amalgam in recent years, there is a need for an equally strong yet safer replacement. **ZIRCONOMER** defines a new class of restorative glass ionomer that promises the strength and durability of amalgam with the protective benefits of glass ionomer while completely eliminating the hazard of mercury.

The inclusion of zirconia fillers in the glass component of **ZIRCONOMER** reinforces the structural integrity of the restoration and imparts superior mechanical properties for the restoration of posterior load bearing areas where the conventional restorative of choice is amalgam. Combination of outstanding strength, durability and sustained fluoride protection deems it ideal for permanent posterior restoration in patients with high caries incidence as well as cases where strong structural cores and bases are required.

Ideal for Restoration of

- Class I & II cavities
- Structural base in sandwich restorations
- All classes of cavities where radiopacity is a prime requirement
- Core build-up under indirect restorations
- Root surfaces where overdentures rest
- Pediatric and Geriatric restorations
- Long-term temporary replacement for fractured cusps
- Fractured amalgam restoration
- Suitable for ART techniques



The White Amalgam

Zirconomer is developed to exhibit strength that is consistent with amalgam, through a rigorous manufacturing technique. The glass component of this high strength glass ionomer undergoes finely controlled micronization to achieve optimum particle size and characteristics. The homogeneous incorporation of zirconia particles in the glass component further reinforces the material for lasting durability and high tolerance to occlusal load. The polyalkenoic acid and the glass components have been specially processed to impart superior mechanical and handling qualities to this high strength glass ionomer.

Property	ISO limit	ZIRCONOMER
Compressive strength		
- 1 hour	>50 MPa	215 MPa
- 24 hours	>300 MPa	346 MPa
Creep	<3%	0.02%
Dimensional stability	-0.15% to +0.20%	+0.03%

Exceeds Amalgam ISO 1559 Standard

Durable Posterior Restoration...



Preparation of Class I Cavity



Restored with Zirconomer

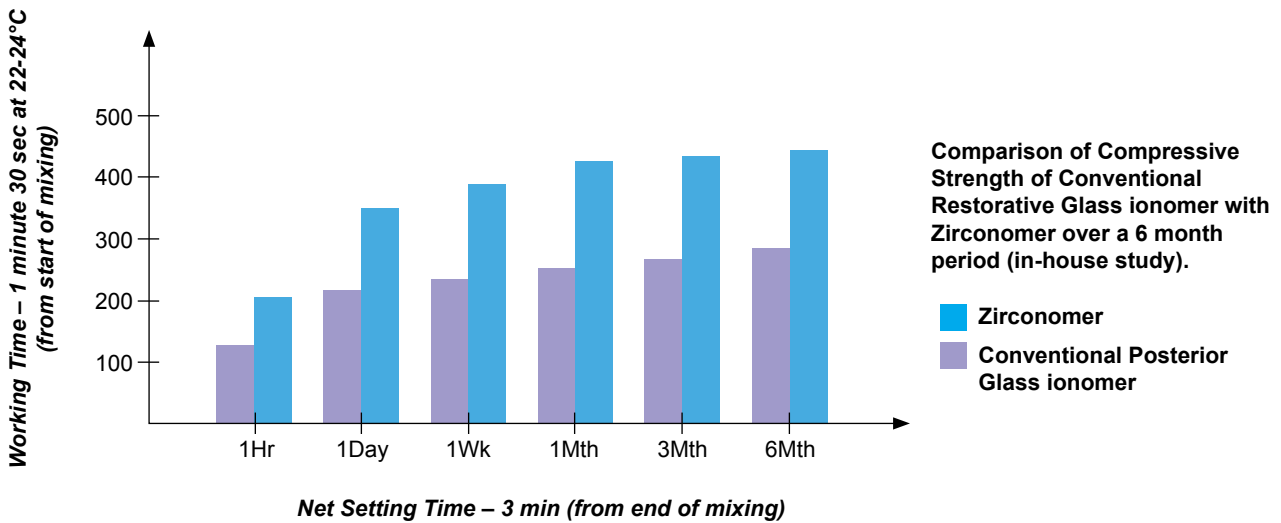
Photographs courtesy of Dr. Sushil Koirala

Zirconomer Benefits

- Reinforced with special zirconia fillers to match the strength and durability of amalgam
- Sustained high fluoride release for anti-cariogenic benefits especially in cases with high caries risk
- Packable and condensable like amalgam without the hazard of mercury, the risk of corrosion, expansion and thermal conductivity
- High flexural modulus and compressive strength ensures longevity in stress bearing areas
- Chemically bonds to enamel/dentin and has tooth-like co-efficient of thermal expansion resulting in low interfacial stresses and long-lasting restorations
- Ceramic fillers impart remarkable radiopacity for accurate follow up and diagnosis
- Adequate working time with snap-set reaction
- Easy mixing and handling characteristics minimize chair time and enables ease of bulk placement
- Excellent resistance to abrasion and erosion

Extraordinary Strength & Durability

Zirconomer raises the bar for restorative reinforced glass ionomers by outperforming conventional glass ionomers in stress bearing posterior restorations with notably high compressive strength and dimensional stability for long-lasting performance.



Order Information



ZIRCONOMER 1-1 Set (12gm/5ml) [PN 3125]

Related Products



Cocoa Butter 10gm [PN 1139]



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