

Z-Bond

One-Step Light-Cured Self-Etching Dentin/Enamel Bonding Adhesive with Advanced Desensitizing Properties

Product Overview

Z-Bond L/C represents the most advanced evolution in adhesive dentistry. This cutting-edge, one-step system integrates etching, priming, and bonding into a single solution, eliminating the complexities of traditional multi-bottle systems.

Key Clinical Benefits:

Sensitivity Control: Virtually eliminates post-operative sensitivity.

Efficiency: Consolidates all essential treatment steps into one component.

Versatility: Ideal for high-strength direct bonding and permanent cementation.

Multi-Material: Bonds composite-to-metal, porcelain, and existing composite.

Indications for Use

Dent Zar's Z-Bond- is a single-component adhesive is a hydrophilic bonding agent that is suitable for use on moist dentin (wet bonding technique) and is designed to bond composites and compomers to both dentin and enamel, as well as treated metal and ceramic surfaces.

Dent Zar's Z-Bond- incorporates aspects of etching and bonding in a single bottle. It is fast and saves a lot of chair time. Z-Bond markedly reduces sensitivity, because the adhesive penetrates the smear layer and adheres to tooth structure without opening tubules. Etching, penetration, and saturation of the dentin and enamel are accomplished with just 2 to 3 coats. It can be used for direct and indirect bonding procedures.

Technical Specifications

Characteristics	Performance	Clinical Advantage
Dentin Bond Strength	29 MPa	Exceptional restoration retention
Enamel Bond Strength	35 MPa	Superior marginal seal; prevents staining
pH Level	2.4	Balanced etching for zero sensitivity
Film Thickness	< 8 µm	Ultra-thin for precise crown/veneer fit

Instructions for Use

1. Clean and prepare the cavity.
2. Dispense two drops of Dent Zar's Z-Bond into a mixing well. Using a fully saturated brush tip each time, apply two consecutive coats to tooth without waiting between coats. Leave undisturbed for at least 20 seconds. With an air syringe (placed 1.5 inches from the prep) thoroughly air-dry for 10 seconds to remove excess solvent and water. If the surface is not glossy, apply additional coats and dry. Light cure for 10 seconds. Applying extra coats of Z-Bond will help to reduce stress placed on tooth and bond.
3. Apply remaining adhesive on brush tip onto dentin and enamel followed by brief air-drying.
4. Incrementally place light cure composite, then finish and polish.

For Chemical Cure Composite Filling with Light-Cured Occlusal Layer. Follow the above steps 1 through 3.

1. Place matrix band. Mix base and catalyst of a chemical cure composite. Using a tube and plug, syringe composite into cavity preparation to level of DEJ.
2. Prior to initial set of chemical-cure composite, place a thin preformed patty of light cure composite slightly wider than the cavity preparation and lightly condense. (This step prevents voids, enhancing adaptation of the composites).
3. Following set of the chemical cure composite, firmly condense the light cure composite, remove excess and light cure.
4. Remove matrix band, then finish and polish.

Storage: Replace cap immediately. Store at 72°F (22°C).

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