

Z-BOND

ONE STEP LIGHT-CURED SELF-ETCHING FLUORIDE RELEASING DENTIN/ENAMEL BONDING ADHESIVE WITH STRONG DESENTISIZING PROPERTIES

Indications for Use

Dent Zar's Z-Bond-One-Step Light Cure Self-Etching Dentin/Enamel Bonding Adhesive is a single-component light cure multi-use adhesive for use in restorative dentistry. This 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, amalgam, and ceramic surfaces.

Dent Zar's Z-Bond-One-Step Light Cure Self Etching Dentin/Enamel Bonding Adhesive requires no mixing since the adhesive 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, due to the fact that 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.

Instructions for Use

1. Clean and prepare cavity
2. Dispense 2 drops of Dent Zar's Z-Bond into mixing well.
Using a fully saturated brush tip each time, apply 2 consecutive coats to tooth without waiting between coats. Leave undisturbed for at least 20 seconds. With an air syringe (place 1.5 inches from the prep) thoroughly air dry for 10 seconds to remove excess solvent and water. If 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, finish and polish.

For Chemical Cure Composite Filling with Light-Cured Occlusal Layer

1. Follow above steps 1 through 3.
2. Place matrix band. Mix equal portions of base and catalyst of a chemical cure composite. Using a tube and plug, syringe composite into cavity preparation to level of DEJ.
3. 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).
4. Following set of the chemical cure composite, firmly condense the light cure composite, remove excess and light cure for 40 seconds.
5. Remove matrix band and finish and polish.

Immediately replace cap on adhesive bottle to prevent evaporation of solvents. Store at 72°F (22°C).

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Material Safety Data Sheet

U.S. Department of Labor

Z-Bond-Light-Cured One-Step Self-Etching Dentin/Enamel Bonding System

SECTION I—IDENTIFICATION

Dent Zar, Inc.
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(800) 444-1241, Outside U.S.-818-857-3010, Fax: 818-857-3013
Chemical Family: Methacrylates

SECTION II—HAZARDOUS INGREDIENTS

Diurethane Dimethacrylate
TLV: Not Available

SECTION III—PHYSICAL DATA

Boiling Point: N/A
Vapor Pressure: (mm Hg): N/A
Vapor Density (Air=1): N/A
Percentage Volatile by Volume: N/A
Appearance and Odor: Thick opaque liquid with faint resin odor.

Solubility in Water: Negligible
Specific Gravity: N/A
Evaporation Rate: N/A

SECTION IV—FIRE & EXPLOSION HAZARD DATA

Flash Point: N/A
Extinguishing Media: Foam, Carbon Dioxide or Dry Chemical
Unusual Fire and Explosion Hazards: None

SECTION V— REACTIVITY DATA

Stability: Stable
Conditions to Avoid: High Temperature, prolonged Storage above 35°C, Direct Sunlight, High Intensity Light.
Incompatibility: Strong Acid, Peroxides and other oxidizing agent.
Hazardous Decomposition Products: Carbon Monoxide and Carbon Dioxide, low molecular weight Hydrocarbons and organic acids.
Hazardous Polymerization: May Occur
Conditions to Avoid: Light, open flames, contamination, and prolonged storage above 35° (100°F.)

SECTION VI— HEALTH HAZARD DATA

Skin, Effects of Overexposure: May cause irritation
Skin, First Aid Procedures: Wash with soap and water. If irritation persists, get medical attention.
Eyes, Effects of Overexposure: May cause irritation. Flush promptly with large amount of water for 15 minutes and get medical attention.
Inhalation, Effects of Overexposure: A very large amount of uncured material can cause Dyspepsia, Nausea, and Vertigo.
Ingestion, First Aid Procedures: Consult a physician immediately.

SECTION VII— SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Absorb with inert materials such as dry sand and place in closed container for disposal as solid waste.
Waste Disposal Method: This disposal method is by recommendation only. Be sure to dispose of materials in full accordance with all local, state and federal regulations.

SECTION VIII— SPECIAL PROTECTION

Respiratory Protection, Ventilation, Protective Gloves, Eye Protection, and other protective equipment are not required under normal conditions of use.

SECTION IX— SPECIAL PRECAUTIONS

Precaution to be taken in Handling and Storing: Keep materials capped at all times after use. Store at room temperature.
Other precautions: We recommend obtaining a copy of the "Director of Poison Control Centers." To obtain a copy write to: Superintendent of Documents, U.S. Government Printing Office, Washington, D.C.

The information contained herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of this information.

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