

Made in USA

TECHNICAL BULLETIN

Instructions

PEARL

Pearl is a self cure, filled permanent cement designed for: cementing conventional cast restorations on most vital and non-vital teeth, cementing bonded bridges of both cast and etched (Maryland) and perforated base (Rochette) types. It is also suitable for cementing prefabricated laminate veneers, ceramic crowns, inlays, onlays, cementation of pins, posts, and periodontal splinting.

KIT CONTAINS

16 g Part A Adhesive
16 g Part B Adhesive
5 g Porcelain Conditioner
Accessories and Instructions

OUTSTANDING FEATURES OF THE MATERIAL

- Convenient, easy to apply; 120 seconds working time, 180 seconds setting time.
- High Mechanical Strength; Compressive strength 215 MPa, Diametral Tensile strength 42 MPa.
- Versatile.
- Excellent biological and chemical resistance to oral environment.
- Good reproducibility and control of working time.
- Long shelf life.

Dent Zar, Inc.
19643 Trull Brook Dr.
Tarzana, CA 91356
U.S.A.

Head Office

Toll Free: 800-444-1241, Outside U.S. 323-465-3621

Fax: 323-465-2994, E-mail: dentzar@yahoo.com, Web Site: www.dentzar.com.

EC Authorized Representative
Mr. R.J. Macmillan

24-28 St Leonards Road #82
Windsor, Berkshire SL4 3BB
United Kingdom
0-500-892-711, or 0-800-960-750

125 A 1030 Denman St #304
Vancouver B.C. V6G 2M6
Canada
800-444-1241

2A Crawford Hall
Wandesford Quay
Western Rd., Cork
Ireland
1-800-55-9633

MDW Newmarket
63 Remuera Rd
Newmarket, Auckland
New Zealand
0-800-446-570

INSTRUCTIONS PREPARATION FOR BONDING

A. Conventional Cast Restorations

1. Microblasting of the internal surface of the casting with 25-micron Aluminum Oxide is recommended in order to create a clean surface with irregularities to provide additional retention. Using an ultrasonic cleaner or scrubbing with a clean toothbrush under running water can remove residual Aluminum Oxide. Disinfect casting and rinse thoroughly with water.
2. In order to assure best seal and retention, the preparation should be cleaned of all residues of temporary cement as scrupulously as possible.
3. Clean with a pumice slurry that does not include oils or fluoride.

a. Non-Vital Teeth

Apply etching agent with a dabbing motion to the prepared tooth surface for 60 seconds. Rinse and dry thoroughly with oil-free air. Apply enamel and dentin bonding system of your choice.

b. Vital Teeth

Prepared tooth surfaces should be clean and dry. Deep areas of the preparation may require application of Calcium Hydroxide liner. Apply enamel and dentin bonding system of your choice.

B. Maryland and Rochette Bridges

1. The abutment teeth must be cleaned with a pumice stuffy that does not include oils or fluoride. The enamel surface to be bonded should be etched with Enamel Conditioner using dabbing motion for 90 seconds. Rinse the teeth with copious amounts of water for a minimum of 60 seconds and then dry with clean, warm air. Use enamel and bonding system of your choice to prepare teeth for bonding.

CAUTION: *It is important not to touch the etched surface of the Maryland Bridge restoration. The contaminated etched surface can be cleaned with chloroform or acetone.*

2. Place mylar matrix strips on proximating teeth to avoid bonding them to the bridge.

C. Ceramic Crowns, Prefabricated Laminate Veneers, Inlays and Onlays.

1. When bonding to etched porcelain or glass, the use of Porcelain Conditioner is recommended. Apply a thin layer of Saline Porcelain Conditioner to the surfaces to be bonded, and blow-dry for 30 seconds. This will enhance the bond between the restoration and the cement. Surfaces of the restoration prepared for bonding must be thoroughly clean. If contamination occurs, they should be washed in absolute alcohol, dried and re-treated with Porcelain Conditioner before bonding.

CEMENTING

1. Place about equal amounts of Paste A and B on a mixing pad. (If a longer working time is required refrigerate the material prior to use, or mix it on a cold glass slab)
2. Spatulate the two pastes together for approximately 20 seconds. Make certain the two pastes are well blended with no residual streaks of each paste evident in the mixture.
3. Place a sufficient quality of the mixture on the restoration. Make certain that all the surfaces are covered with cement. Place a small amount of the cement in the gingival aspects of the preparation and immediately follow with the placement of the restoration.
4. Hold the restoration under constant pressure for 90 seconds, keep the moisture away from the cemented restoration during this period.
5. Remove excess cement from the margins with a carver or scaler prior to onset of initial set (gel stage). Once initial set has begun, do not attempt to remove excess cement as the material may be pulled from under the margins. The cement will fully harden in three minutes.

STORAGE

The performance of the material is guaranteed for two years from the date of manufacture if stored at room temperature. Refrigeration will prolong the shelf life.

All components and accessories are available separately

Material Safety Data Sheet

May be used to comply with OSHA'S Hazard Communication Standard 29 CFR 1910.1200, Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

Identity (as Used on Label and List) Pearl-Crown and Bridge Cement.

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that

Section I

Dent Zar Inc. Emergency Telephone Number: 323-465-3621
Address (Number, Street, City, State and Zip Code) Telephone Number for Information: 323-465-3621
19643 Trull Brook Dr. Date Prepared: 06-17-97
Tarzana, CA 91356, USA Signature of Preparer (Optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity:Common Name(s))	OSHA PEL	ACGH	TLV	Other Limits Recommend %(optional)
SILICON DIOXIDE				
BARIUM GLASS				
METHACRYLATE				
MONOMERS				
BENZOYL PEROXIDE ORGANO				
TERTIARY AMINE				
ALUMINUM OXIDE				

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H20=1)	N/A
Vapor Pressure (mm Hg)	N/A	Melting Point	N/A
Vapor Density (AIR=1)	N/A	Evaporation Rate (Butyl/Acetate=1)	N/A
Solubility in Water	NOT SOLUBLE		
Appearance and Odor	TINTED PASTE WITH CHARACTERISTIC ODOR		

Section IV - Fire and Explosion Data

Flash Point (Method Used) N/A Flammable Limits N/A L EL N/A U EL N/A
Extinguishing Media CHEMICAL FOAM, CARBON DIOXIDE, OR DRY CHEMICAL
Special Fire Fighting Procedure NONE
Unusual Fire and Explosion Hazards NOT KNOWN AS TO DATE

Section V - Reactivity Data

Stability Unstable () Conditions to Avoid EXTREME HEAT, SUN LIGHT OR VISIBLE LIGHT
Stable (X)
Incompatibility (Materials to Avoid) AVOID CONTAMINATION FOR BASE PASTE AND AMINE CONTAMINATION FOR CATALYST PASTE

Hazardous Decomposition or By products

Hazardous May Occur (X) Conditions to Avoid EXTREME HEAT, EXPOSURE TO LIGHT.
Polymerization Will Not Occur ()

Section VI - Health Hazard Data

Route (s) of Entry Inhalation? YES Skin? YES Ingestion? YES
Health Hazards (Acute and Chronic) MAY OCCUR IN ALLERGIC PEOPLE OR OVEREXPOSED PEOPLE

CARCINOGENICITY NTP? ARC Monographs? OSHA Regulated?
No carcinogens present

Signs and Symptoms of Exposure
Medical Conditions Generally NOT KNOWN
Aggravated by Exposure

Emergency and First Aid Procedures

SKIN CONTACT: WASH OFF WITH SOAP AND PLENTY OF WATER IMMEDIATELY
EYE CONTACT: FLUSH PROMPTLY WITH COPIOUS AMOUNT OF WATER FOR A LEAST 15 MINUTES AND SEE PHYSICIAN
INGESTION: SEE PHYSICIAN PROMPTLY.

Section VII - Precautions for Safe Handling and Use

Steps to be taken in case Material is Released or Spilled CLEAN USING GLOVES AND DISPOSE IN AN APPROVED MANNER. AVOID BREATHING VAPORS. VENTILATE AREA.

Waste Disposal Method DISPOSE IN ACCORDANCE TO LOCAL, STATE AND FEDERAL REGULATIONS.

Precautions to be taken in handling and storing AVOID CONTACT WITH SKIN, TISSUE, GUMS AND EYES

Other Precautions. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

Section VIII - Control Measures

Respiration Protection (specify type) GENERALLY NOT NECESSARY
Ventilation Local Exhaust RECOMMENDED Special NONE
Mechanical (General) Other NONE
Protective Gloves RECOMMENDED Eye Protection RECOMMENDED

Other Protective Clothing or Equipment
Work/Hygienic Precaution NORMAL SAFE PRACTICES. USE ONLY IN A HIGHLY PROFESSIONAL MANNER.

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 .

