

**Technical Bulletin
Instructions**

Made In U.S.A.

**EAGLE
A Dual-Cure
Core Build-Up Material
Auto Mix-System**

CONTENTS

35 g of Dual-Cure Core Build-Up Material In Auto-Mix Cartridges
Accessories and Instructions.

OUTSTANDING FEATURES OF THE MATERIAL

- Convenient working time in self-(chemically) cured mode.
- Light cure properties of the material facilitate cure of the product.
- Well balanced x-ray opacity permits one to easily distinguish it from tooth structure, pins and posts.
- Does not require refrigeration; long shelf life at ambient temperatures.
- Also suitable for cementing posts.
- Saves substantial chair-time due to its auto-mix system.
- Smaller mixing tips contributes to less waste.
- Intra oral tip permits application of the material directly into the tooth.

PHYSICAL DATA

Compressive Strength	Diametral Tensile Strength	Hardness (Barcol)	Solubility in Water	Working Time*	Setting Time*
30761.2 psi (212 MPa)	6384.4 psi (45MPa)	70	Virtually insoluble	1.5 min.	3.5 min.

- At 23°C in a self-cure mode

PREPARATION

1. Isolate the tooth to be prepared. We recommend the use of a rubber dam.
2. Remove all existing restorations and decay from the tooth. If desired, removal of decay can be verified using a caries indicator solution. At this time you may place any pins or posts if necessary.
3. Acid etch the entire preparation for 20 seconds using (32% to 40%) phosphoric acid. The enamel of the preparation should have a frosted appearance.
4. Rinse with a water spray for 30 seconds and lightly air dry.
5. Place hydrophilic primer and bonding system of choice onto the preparation according to the manufacturer's instructions. When placing the primer, be sure that all of the solvent has been evaporated and the preparation has a glossy appearance. Before light curing, the bonding agent should be thinned with a light air spray.
6. Select the desired shade of auto-mix dual cure core build-up and remove the closure cup from the cartridge (***Do Not Re-Use The Cap!***). Install the mixing tip onto the cartridge and extrude the needed amount of material. ***After Each Use Leave The Used Mixing Tip In Place To Seal The Cartridge.*** The initial extrusion from mixing tip (about the size of a pea should be discarded.) The following mixture will be perfect. This must be done with each new mixture.

APPLICATION TECHNIQUES

Matrix Band

1. To facilitate placement of Eagle auto-mix dual-cure core paste, place a matrix band around the prepared tooth.
2. Apply Eagle core build-up material directly onto the preparation.

Prefabricated Crown Form

1. When using a prefabricated crown form, place the mixing tip directly into the crown form and express the auto mix dual-cure core paste.
2. Place the loaded crown form onto the prepared tooth and hold into place until the paste is fully set.
Cure: Eagle auto-mix dual-cure core material has a 1:30 minute working time. The material may be manipulated using a composite instrument. A flat ended interproximal carver (IPC) is recommended. Eagle-auto-mix dual-cure core material has a 3.5 minutes chemical cure set time; or one may speed up the cure by light curing for 10 to 90 seconds (depending on the characteristics of the light curing unit used.)

FUNDAMENTAL RULES

- Eagle may be used with, or without pins and posts. On vital teeth a conservative cavity preparation is recommended. With rounded retentive areas, it is also recommended to use Calcium Hydroxide base liner especially in situation in the proximity of the pulp and over soft and decay-prone dentin, in order to provide an additional protection against secondary decay.
- Do not use Eagle dual-cure core build-up material with products containing Eugenol. Water and oily air must be avoided as they inhibit the polymerization of Eagle dual-cure core build-up material. Placement of the composite is contraindicated if a dry field is not possible.

- **Eagle is Bis-Gma composite, which also contains Benzoyl Peroxide. Bis-Gma and Benzoyl Peroxide in some people can cause an allergic reaction, or result in skin or tissue irritation. Avoid contact with the core build-up paste. If contact occurs, wash immediately with soap and warm water. Improper use may result in allergic reaction of skin, or tissue irritation; if this occurs, discontinue use of the product.**

CUSTOM EAGLE KITS AVAILABLE: Eagle all contrast, all natural.

STORAGE

Do not store or expose kit to temperatures over 72°F (22°C). If stored refrigerated remove 20 minutes prior to use.

Use only at room temperature (refrigerated material is more viscous and cures more slowly).

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Material Safety Data Sheet

U.S. Department of Labor

May be use to comply with
OSHA'S Hazard Communication standard
29 CFR 1910-1200. Standard must be
consulted for specific requirements

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

Identity (as Used on Label and List) **Eagle-Core Build-up Material**

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	800-444-1241 or 818-857-3010
Address (Number, Street, City, State and Zip Code)	Phone Number for information	800-444-1241 or 818-857-3010
19643 Trull Brook Dr.	Date Prepared	01-27-97
Tarzana CA 91356	Signature of Preparer	(Optional)

Section II- Hazardous ingredients/identity information

		Other Limits	
Hazardous Components (Specific Chemical Identity: Common Name(s))		OSHA PEL ACGH TLV	Recommended % (optional)
SIUCON DIOXIDE	(60676-66-01)	10 mg/m ³	10 mg/m ³
BARIUM GLASS	(65997-18-4)	10 mg/m ³	10 mg/m ³
METHACRYLATE MONOMERS	(1565-94-2)	n.e.	n.e.
BENZOYL PEROXIDE	(94-35-0)	5 mg/m ³	5 mg/m ³
TERTIARY AMINES			
PHOTOINITIATOR	(24950-42-0)	n.e.	n.e.

Section III - Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H2O=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 INSOLUBLE

Appearance and Odor TINTED PASTE, CHARACTERISTIC ODOR.

Section IV - Fire and Explosion Data

Flash Point (Method Used)	N/A	Flammable Limits	N/A	LEL	UEL
Extinguishing Media	CHEMICAL FOAM, CARBON DIOXIDE OR DRY CHEMICAL				
Special Fire Fighting Procedure	NONE				
Unusual Fire and Explosion Hazards	NOT KNOWN AS OF TODAY				

Section V-Reactivity Data

Stability Unstable Conditions to Avoid EXTREME HEAT, SUN LIGHT OR VISIBLE LIGHT.

Stable X

Incompatibility (Material to Avoid)

PEROXIDE FOR BASE PASTE AND AMINE FOR CATALYST PASTE.

Hazardous Decomposition or Byproducts

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 FOR SPECIAL ALLERGIC PEOPLE OR OVEREXPOSED PEOPLE. SEE A PHYSICIAN PROMPTLY.					

Carcinogenicity N/A NTP? N/A ARC Monographs? N/A OSHA Regulated? N/A

Signs and Symptom of Exposure N/A

Medical Conditions Generally

Aggravated by Exposure N/A

Emergency and First Aid Procedures IF SKIN IS CONTACT OCCURED WASH OFF WITH SOAP AND WATER IMMEDIATELY.

SEE A

PHYSICIAN PROMPTLY SHOULD INGESTION OCCUR.

Section VII .Precaution for Safe Handling and Use

Steps to be taken in case material is released or spilled CLEAN UP USING GLOVES AND DISPOSE IN AN APPROVED MANNER.

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 CLOSED WHEN NOT IN USE.

Section VIII - Control Measures

Respiration Protection (specify type) GENERALLY NOT NECESSARY

Ventilation	Local Exhaust	RECOMMENDED	Special
	Mechanical (General)		Other

Protective Gloves ALWAYS RECOMMENDED Eye Protections RECOMMENDED

Other Protective Clothing or Equipment

Work/Hygienic Precaution NORMAL SAFE PRACTICES. USE ONLY IN A HIGHLY PROFESSIONAL MANNER.