

Made in U.S.A.

**TECHNICAL BULLETIN
INSTRUCTIONS**

ORION

**LIGHT-CURE CORE BUILD-UP MATERIAL
A SINGLE DOSE CAPSULES KIT**

A light-cure restorative for use in the build-up of teeth lacking sufficient coronal structure.

CONTENTS

60×.5g Capsules of Orion L/C Core Build-Up Material
12-g Enamel Conditioner
Accessories & Instructions

INSTRUCTIONS

- The restorative cures with light induced curing mechanism in excess of 10 mm*
- Virtually unlimited working time
- Easy handling; convenient dispensing system
- Moldable, non-sticky, yet adhesive consistency
- Ease of carving and contouring.
- Substantial char-time savings
- Moldable, non-sticky yet adhesive consistency
- Contains moderately hard filler for easier carving and shaping
- Long shelf life at ambient temperatures
- X-ray opaque

***Important: light cure Orion in contrast color cures only 3-4 mm deep**

CE
0120

**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

DIRECTIONS FOR USE

Light cure Orion may be used with or without pins and posts. The restorative may be applied directly onto the preparation or by using transparent crown forms.

In the majority of restorations, the restorative may be applied in one step. Cure may be accomplished with any dental curing light operating in the visible wavelength range. Depending on the depth of cure and intensity, the necessary curing time may vary from 20-60 seconds. The tip of the light should be placed as close to the restoration as possible and moved slowly around its periphery and over its top.

After the material is cured, it may be trimmed and shaped in the same manner as composite restoratives.

SPECIAL PROCEDURES

When making core build-up restorations on vital teeth, especially in situations involving proximity of the pulp, the use of Alphaseal Light-Cured Cavity Liner is recommended. A thin layer of Alphaseal should be applied over exposed dentin and cured by light for 20 seconds, followed by the application of Light Cure Orion.

The use of Alphaseal is also recommended over decalcified, decay-prone dentin, in order to provide an additional measure of protection against secondary decays. On vital teeth, a conventional calcium hydroxide type base should be applied in cases involving direct pulp exposure.

HELPFUL HINTS

The abutment should be dried thoroughly prior to placement of the restorative.

Priming of dentin and enamel prior to placement of core material is optional, though it may be desirable in certain clinical situations.

CHARACTERISTICS OF THE MATERIAL

Compressive Strength	32.260 Psi
Flexural Strength	125 Psi
Water Sorption	5.9 µg/ml
Water Solubility	<0.5 µg/ml
% Filler	84 %
Depth of Cure in Natural Color	10 mm

Notice: L/C Orion is Bis-GMA composite material an ingredient that 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, in which case discontinue use of the product.

STORAGE

Store in a cool place at temperatures not exceeding 23°C (73°F). For extended shelf life, store refrigerated. DO NOT FREEZE. When cold, the material has a stiffer consistency. For easier handling, remove from cool storage at least 15 minutes prior to use.

Material Safety Data Sheet

May be use to comply with
OSHA's Hazard Communication Standard,
29 OFA 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 121 8-0072

IDENTITY (As Used on Label and List)

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

ORION VISIBLE LIGHT-CURE CORE BUILD-UP MATERIAL

Section I

Manufacturer's Name: DENT ZAR, INC.
Address (Number Street, City, State and Zip Code)
19643 TRULL BROOK DRIVE
TARZANA CALIFORNIA 91356

Emergency
Telephone Number for information
Date Prepared
Signature of Preparer (optional)

Telephone Number (800) 444-1241 or 323-465-3621
(800) 444-1241 or 323-465-3621
01-20-2003

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s))

Other Limits
OSHA PEL ACGIH TLV Recommend % (optional)

SILICON DIOXIDE
BARIUM GLASS
METHACRYLATE MONOMERS
PHOTOINITIATOR
AMINE
OTHER INGREDIENTS ARE LESS THAN 1% EACH

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

Rash Point (Method Used) N/A Flammable Unites N/A LEL UEL
Extinguishing Media CHEMICAL FORMS CARBON DIOXIDE OR DRY CHEMICAL
Special Fire Fighting Procedures None
Unusual Fire and Explosion Hazards NOT KNOWN AS TO DATE

Section V- Reactivity Data

Stability Unstable
Stable X

Incompatibility (Materials to Avoid) PEROXIDES; STRONG OXIDIZING AGENTS.

Hazardous Decomposition or Byproducts

Hazardous May Occur Conditions to Avoid EXTREME HEAT SUN LIGHT OR VISIBLE LIGHT
Polymerization Will Not X
Occur

Section VI - Health Hazard Data

Rout(s) of entry Inhalation YES Skin YES ingestion YES
Health Hazards (Acute and Chronic) MAY OCCUR FOR SPECIAL ALOERGIC PEOPLE OR OVER EXPOSED PEOPLE SEE A PHYSICIAN PROMPTLY

Carcinogenicity N/A NTP N/A IARC Monographs? N/A OSHA Regulated? NA

Signs and Symptoms of Exposure N A

Medical Conditions Generally aggravated by exposure N/A

Emergency and First Aid Procedures IF SKIN IS CONTACTED WASH OFF WITH SOAP AND WATER IMMEDIATELY EE A PHYSICIAN PROMPTLY SHOULD INGESTION OCCUR

Section VII - Precautions for Sate Handling Use

Steps to be taken in case Material is Released or Spilled CLEAN UP USING GLOVES AND DISPOSE OF IN AN APPROVED MANNER

Waste Disposal Method DISPOSE OF ACCORDING TO LOCAL, STATE AND FEDERAL REGULATIONS

Precautions to Be Taken in Handling and Storing AVOID CONTACT WITH SKIN, TISSUE GUM AND EYES

Other Precautions KEEP CLOSED WHEN NOT IN USE

Section VIII - Control Measures

Respiration Protection (Speedy Type) GENERALLY NOT NECESSARY

Ventilation Local Exhaust RECOMMENDED Special

Mechanical (General) Otter
Protective Gloves ALWAYS RECOMMENDED Eye Protection RECOMMENDED

Other Protective Clotting or Equipment

Work/Hygienic Practices 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.