



ALPHA-CROWN®

TEMPORARY CROWN
& BRIDGE MATERIAL

SELF CURE



Description:

Alpha-Crown® is a self-cure polymer-based temporary crown & bridge material with fluorescence which allows for naturally aesthetic, life-like temporaries. It contains 23% by volume of a blend (barium-alumino-silicate, quartz and silica) of fillers. The material is compatible with light cure flowable composites for repairs and is radiopaque for easy identification in radiographs.

Indications for Use:

Alpha-Crown® is intended for use in temporary crowns and bridges, temporary inlays and onlays, and long term temporaries.

Fulfills the requirements of ISO 10477:2004

ISO 10477 does not cover the application of these polymer-based crown and bridge materials for stress-bearing areas in posterior teeth. Self-Cure Temporary Crown & Bridge Material is a Type 1, Class 1 polymer-based crown & bridge material.

Contraindication:

Alpha-Crown® is contraindicated in patients with a history of severe allergic reaction to acrylic resins.

Warnings:

1. When using a cartridge for the first time, extrude a "pea" size amount of material and discard.
2. Always leave mixing tip in place after use. It will serve as the cartridge cap.

General Precautions:

1. U.S. Federal Law restricts this device to sale by or on the order of a dentist.
2. Review instructions and MSDS prior to beginning treatment. Use only as directed.

Adverse Reaction:

Alpha-Crown® contains polymerizable monomers which can cause skin sensitization (allergic contact dermatitis) in susceptible individuals. Wash thoroughly with soap and water after contact. If such reaction occurs, discontinue use.

Instructions for Use:

1. Prior to tooth preparation or extraction, take a primary impression using silicone, alginate or thermoplastic impression material. To provide bulk for later finishing of the temporary restoration, trim the interdental gingival excess from the impression. In molar areas with absent teeth, the carving in the interproximal areas should create a ridge for pontic contact between the prepared teeth.
2. Perform any necessary extractions and prepare abutting teeth.
3. Dry the prepared abutments. If desired, the prepared abutments and tissue can be lightly coated with Petroleum Jelly for easier separation.
4. Air-dry the impression and begin dispensing **Alpha-Crown®** into the impression or matrix filling from the bottom (occlusal surface) to the top (gingival). Keeping the mixing tip immersed in the material while dispensing to prevent air bubbles.
5. Insert the impression or matrix, filled with **Alpha-Crown®** within 45 seconds over the prepared teeth using steady, even pressure and hold firmly in place.
6. Remove from the mouth after between 1:45 and 2:15 minutes (from the start of mixing) has elapsed. At this stage the material will be elastic and can be easily removed without deformation.
7. **Alpha-Crown®** will set in 3:00 additional minutes. For a quicker setting time, material can be placed within a cup of hot water (50°C/122°F) for 30 seconds.
8. Remove the material from the impression or matrix. Removal of the oxygen inhibition smear layer can be easily removed by wiping with alcohol.
9. If trimming is necessary, the temporary materials can be shaped with slow acrylic burs and disks. Adjust occlusion and embrasures in the mouth using high-speed finishing diamond burs. Polish with conventional materials.
10. Cement the finished temporary restoration with a temporary cement.

Performing Repairs to Temporary Restorations:

Voids or adding to short margins:

1. Rinse and air dry the temporary restoration.
2. Roughen the surface to be repaired with a diamond burr.
3. Remove all surface dust and wipe with alcohol.
4. Apply bonding adhesive according to manufacturer's instructions.
5. Apply matching shade of a light cure flowable composite onto repair and light cure according to manufacturer's instructions.
6. Finish and adjust as necessary.

Fracture:

1. Repeat steps 1 - 4 above.
2. Dispense a fresh mix of **Alpha-Crown®** onto all surfaces.
3. Hold together for 2:30 minutes.
4. Wait 5:30 minutes before trimming or removing excess material.

Storage:

Refrigeration is recommended. Store material between 2°C/36°F to 27°C/80°F. Always bring to room temperature before using (22°C/72°F). Do not freeze. See package for expiry date.



MATERIAL SAFETY DATA SHEET**SECTION I - Product/Company Identification**

1.1 Product Trade Name: Alpha-Crown®
 1.2 Part (Item) Number(s): 113-0005-002, 113-0006-002, 113-0007-002, 113-0009-002, 113-0801-002
 113-0902-002, 113-1001-002, 113-1101-002, 113-1201-002.
 1.3 Manufacturer: DENTAL TECHNOLOGIES, INC.
 1.4 Address: 6901 N. HAMLIN AVENUE
 City, State, Zip: LINCOLNWOOD, IL 60712 U.S.A.
 1.5 Emergency Telephone Number: (800) 424-9300/(703) 527-3887 (Chemtrec)
 1.6 Information Telephone Number: (800) 835-0885/(847) 677-5500
 1.7 Date Revised: 08-NOV-04 REV 000

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components:	%	CAS NO.	SYMBOL	R	OTHER LIMITS
Blend of multifunctional methacrylate	55 - 65	N/E	Xn/Xi	22/36/37/38	
Initiator	0.15 - 0.30	[94-36-0]	E/Xn	2/7/36/43	
Amines	0.30 - 0.50	N/E	Xn/Xi/T	22/36/37/38/39	

SECTION III - Hazards Identification

HAZARD CLASSIFICATION Possible irritant to eyes, respiratory system and skin.

SECTION IV - First Aid Measures

Skin: Immediately wash skin with soap and water. If irritation occurs seek medical advice.
Ingestion: If swallowed do not induce vomiting. Give large quantities of water and milk. Seek medical attention.
Inhalation: Remove to fresh air. If breathing becomes difficult, contact a physician.
Eyes: Flush with plenty of water. Seek immediate medical attention by an Ophthalmologist.

SECTION V - Fire Fighting Measures

The product is not considered to be a fire hazard. The information below are given for extinguishing a fire generated by other sources.

Suitable extinguishing media: Water, Chemical Foam, Carbon Dioxide, or Dry Chemical.
 Forbidden extinguishing media: Not determined.
 Special fire-fighting measures: None. Wear self contained breathing apparatus.
 Unusual fire and explosion hazards: Heat can cause polymerization with rapid release of energy.
 Special protection equipment: Self contained breathing apparatus if toxic fumes are generated.

SECTION VI - Accidental Release Measures

Personal precautions: Adopt some precautions of section VII.
 Environmental precautions: Keep spilled material out of sewers.
 Reclaiming methods: Absorb spills with inert material - keep spilled material out of sewers.

SECTION VII - Handling and Storage

Handling: Avoid unnecessary exposure.
Storage: Room temperature.
Containers: Supplied by manufacturer.
Incompatibilities: Avoid the contact with reducing and oxidizing agents, peroxides and amines.
Other precautions: Use according to directions. Avoid contact with eyes, skin and soft tissue.

SECTION VIII - Exposure Controls/Personal Protection

General Measures: Local Exhaust Ventilation: Good general ventilation should be sufficient to control airborne levels of vapors released by uncured material.
Limits: TWA: Not determined; TLV: Not determined.
Respiratory Protection: Avoid prolonged or excessive breathing of vapors of uncured material.
Eye Protection: Safety glasses or goggles.
Skin Protection: Respect good personal hygiene practice. Avoid unnecessary exposure.
Hands Protection: Impervious gloves.
Other Equipment: Lab Coat.

SECTION IX - Physical and Chemical Properties

Appearance:	Colored/uncolored paste	Explosion limits:	Not determined
Odor:	Faint	Water Solubility:	Insoluble
Boiling point:	Not determined	Evaporation Rate:	Not Determined
Flash point:	Not determined		

SECTION X - Stability and Reactivity

Stability: Stable if stored as directed.
Conditions to avoid: Heat, light, aging and contamination.
Materials to avoid: Reducing and oxidizing agents, peroxides and amines.
Hazardous decomposition products: Oxides of Carbon.
Hazardous polymerization products: May occur.

SECTION XI - Toxicological Information

Ingestion: Uncured material may be harmful or fatal if swallowed.
Eye contact: May cause irritation and damage if not removed promptly.
Skin contact: Prolonged or repeated exposure to uncured material may cause irritation or skin rash.
Inhalation: Prolonged or excessive inhalation may cause respiratory tract irritation.
Prolonged exposure: Not applicable.

SECTION XII - Ecological Information

There is no specific information on the product. Use according to good working practice.
 Avoid releasing the product into environment.

SECTION XIII - Disposal Considerations

Unpolymerized (uncured) material may be hazardous waste. Incinerate uncured material and dispose in accordance with local regulations.

SECTION XIV - Transport Information

Additional Information: Not dangerous cargo.

SECTION XV - Regulatory Information

CLASSIFICATION IN ACCORDANCE WITH EEC DIRECTIVES.

Hazard Classification Symbol: Xi
 R22 Harmful if swallowed.
 R36-38 Irritating to eyes, respiratory system and skin.
 S36 Wear suitable protective clothing.

Ingredients Determining the Label: Blend of multifunctional methacrylates.

SECTION XVI - Other Information

None.

CAUTION: PRODUCT FOR PROFESSIONAL USE ONLY

The above information is based on presently available data and to our best knowledge for handling the product under normal conditions. Any use of this product in any way not indicated on this document or using it together with any other process/procedure will be exclusively under the user's responsibility.