DIRECTIONS FOR USE

Indications for Use:
1. BIOLON Crown and Bridge Resin is contraindicated for patients and users with a history of allergic reaction to methyl methacrylate monomer.

Contraindications:
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Precautions:
1. Users with special skin problems, cuts, or abrasions should wear protective gloves.
2. When grinding prosthetic resin, proper ventilation, masks, and vacuum systems should be used.
3. Store at 60-80°F, away from moisture and direct sunlight. The liquid contains unsaturated monomers which may polymerize prematurely if stored at excessively high temperature and/or in sunlight. The powder contains an organic polymerization initiator which may degrade if stored at excessively high temperature.
4. BIOLON Liquid and BIOLON Crown and Bridge Resin (uncured) are hazardous materials. Dispose of in accordance with Federal, State, and local regulations.

Warnings:
1. BIOLON Crown and Bridge Resin contains polymericrizable monomers which may cause skin sensitization (allergic contact dermatitis) or other allergic reactions in susceptible persons. Wash thoroughly with soap and water after contact. If skin sensitization occurs, discontinue use. If dermatitis or other symptoms persist, seek medical advice.
2. Avoid inhalation or ingestion. High-vapor concentration can induce headache, nausea, and irritation of eyes and respiratory system. Liquid contact with eyes may cause irreversible corneal damage. Excessive long-term exposure may be associated with other more serious health effects. Monitor air quality per OSHA standards.

Inhalation:
Move subject to fresh air. Give oxygen or artificial respiration as required.

Ingestion:
Contact your regional Poison Control Center immediately.

Eye Contact:
Flush eyes promptly with copious amounts of water for 15 minutes, and consult a physician. Wash skin with soap and water.

DENTSPLY® Gold Plating Solution contains potassium cyanide, normal precautions should be observed. Use only in a well-ventilated area.

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Application of Liquid Opaaquer
1. Apply proper liquid opaaker over surface from the gingival to the incisal 1/4.
2. Apply the liquid opaaker O8 to the incisal 1/4. Allow the opaaker to air dry for 10 minutes. Do not place under heat lamp, in oven, or under heat blower to hasten drying.
3. Apply the ceramic pink to any extremely thin areas and blue-black for simulating depth in interproximals and translucent incisals.
4. Allergic contact dermatitis and other allergic reactions may occur in susceptible individuals. Residual monomer in fully-cured materials can be minimized by soaking the cured prosthesis in warm water for several days.

Solution:
Solvent for liquid opaaker should be used to clean the brush and thin the opaaker as required.

STEP-BY-STEP INSTRUCTIONS

Preparation of Metal Framework

1. A wax pattern is carved with deliberate contouring to create mechanical retention.
2. Invest a cast-metal frame per alloy directions for use.
3. After cooling, air-abrade casting to remove all fumes.
4. To accentuate the appearance of depth in the interproximal fusions, apply the ceramic pink to any extremely thin areas and blue-black for simulating depth in interproximals and translucent incisals.
5. The O8 may be used to mask all incisal tips. Two additional opaaker shades are available for special effects: ceramic pink for masking thin areas and blue-black for simulating depth in interproximals and translucent incisals.

BIOLON Liquid must be used to achieve optimum results.

BIOLON Crown and Bridge Resin is preshaded to harmonize with BIOFORM® shades.

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3. Apply the ceramic pink to any extremely thin areas on the gingival.
4. To accentuate the appearance of depth in the interproximal spaces, paint the blue-black in those areas to give the illusion of tooth individuality.
5. To give the illusion of a translucent tip on veneers, use the blue-black on the incisal 1/4 rather than the regular incisal shade.
6. Position the crown on the die and begin labial wax-up. It is important that the anatomical contours are in harmony with the adjacent teeth.

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Build-Up Technique

1. Place 1 scoop BIOLON Crown and Bridge Resin in well of mixing tray. In second well add ½ scoop of proper incisal. Move 2 wells with BIOLON liquid available. Apply DENTALY ALCOTE® Separating Agent (tinfoil replacement) wherever BIOLON Crown and Bridge Resin will contact gypsum. Where pontics are involved, cover ridge area.

2. Build-up the unit on or off the model. Should you prefer not to submerge master model in curing unit, duplicate entire model or only that portion involved.
   a) Single unit castings may be built-up while off the model, holding with tweezers or other suitable instrument (over-build contact area).
   b) Bridges with pontics should be built-up while on the model. When BIOLON Crown and Bridge Resin has melded sufficiently to resist distortion (approximately 5 minutes), the bridge should be carefully removed for curing.
   c) Jacket crowns entirely of BIOLON Crown and Bridge Resin. Apply ALCOTE Separating Agent to duplicate die and opaque if necessary. Blend and build crown to contour. Cure on duplicate model if necessary.

3. Moisten a brush with the liquid. Pick up a bead of incisal powder and add to body shade as shown (See Fig. 2). Blend incisal shade back over body shade, blending out to approximately the incisal third.

4. Depress incisal and moisten a brush with liquid. Pick up a bead of incisal powder and add to body shade as shown (See Fig. 2). Blend incisal shade back over body shade, blending out to approximately the incisal third.

5. Immediately place blended appliance on a sagger and submerge in room-temperature water (approximately 70°F/21°C) in Curing Cup. The resin should be entirely covered by water. To cure several at one time, restorations may remain submerged in the cup for 30 minutes before curing.

6. Place Curing Cup containing submersed appliance in processing unit that has been filled with water to 1½" above bottom or bottom rack and has reached 194°F (90°C). Lock lid in position, pressurize to 30 psi, and set a timer for 30 minutes.

7. After curing, remove lid only after complete pressure release (pressure gauge at "O" and vent stops hissing).

8. Use cup hook to remove Curing Cup from unit. Run tap water into cup until casting becomes sufficiently cool to handle. Appliance can then be removed.

*Preferably a thermastically controlled pressure pot rated for 30 psi.

CAUTION: Do not expose underlying opaquer.

Compression Molding Technique A

1. Apply ALCOTE Separating Agent to the surface of gypsum mold in lower half of flask (optional).

2. For each unit, measure 1 scoop of BIOLON body powder and incisal powder into separate wells in a mixing tray. Using the BIOLON dropper, add 5 drops of liquid to the body shade only and stir briefly to wet all particles. Protect with glass cover. A soft packing consistency is reached in 4 to 7 minutes depending on temperature.

3. Fill the mold with body dough. Replace top half of flask using moist cellophane and close slowly. DO NOT USE POXYETHYLENE AS A SEPARATING FILM.

4. Allow material to toughen in flask enough to permit shaping without being rubbery; press back body at 45° angle beginning at the incisal edge utilizing a small spatula. Round mesial and distal corners. (See Fig. 3)

5. Moisten a #1 brush with liquid. Pick up a bead of incisal powder and add to the displaced portion of the body shade (See Fig. 5) or, if desired, make a mix of incisal and apply immediately over same area.

6. Again cover with a sheet of moistened cellophane and slowly press to blend the incisal. Remove the top and check the blend. Blend may be modified if required, i.e., add more incisal, etc., then trial pack.

CAUTION: Do not use underlying opaquer.

7. Press in clamp and submerge in water at 163°F (73°C) for 30 minutes. Transfer to boiling water for an additional 30 minutes.

8. Cool, deflask, and finish.

Compression Molding Technique B

1. Apply ALCOTE Separating Agent to the surface of gypsum mold in lower half of flask (optional).

2. For each unit, measure 1 scoop of BIOLON body powder and incisal powder into separate wells in a mixing tray. Using the BIOLON dropper, add 5 drops of liquid to the body shade only and stir briefly to wet all particles. Protect with glass cover. A soft packing consistency is reached in 4 to 7 minutes depending on temperature.

3. Fill the mold with body dough. Replace top half of flask using moist cellophane and close slowly. DO NOT USE POXYETHYLENE AS A SEPARATING FILM.

4. When at comfortable temperature, grind incisal area at 45° angle (#703 fissure bur), rounding mesial and distal corners. (See Fig. 3)

5. Cover ridge area. Where pontics are involved, cover ridge area.

6. Depress incisal and moisten a brush with liquid. Pick up a bead of incisal powder and add to the precured body shade (See Fig. 5) or, if desired, make a mix of incisal and apply immediately over same area.

7. Cool, deflask, and finish.
### Shade Recommendations For Biolon® Crown & Bridge Resin

#### BIOFORM® Shade Recommendations For Biolon Crown & Bridge Resin

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### OPAQUER - Biolon Liquid Opaquer should be used to mask C/B metals. Both gold and C/B white metal should be flash plated with DENTSPLY® Gold Plating Solution prior to opaquing. The incisal shade (0-8) can be used to mask all incisal tips. However, incisal opaquer is usually not required for Biolon Shade series B-51 and B-91.