

Hy-Pro Lucitone[®] Denture Base Resin



DIRECTIONS FOR USE

Indications for Use:

HY-PRO LUCITONE Denture Base Resin is indicated for the fabrication of complete or partial removable dentures or other removable appliances which require gingival coloration.

Contraindications:

1. HY-PRO LUCITONE Denture Base Resin is contraindicated for patients and users with a history of allergic reaction to methyl methacrylate monomer.

Warnings:

1. HY-PRO LUCITONE Denture Base Resin contains polymerizable monomers which may cause skin sensitization (allergic contact dermatitis) 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 possible 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; consult a physician. Wash skin with soap and water.

Precautions:

1. Users with special skin problems, cuts, or abrasions should wear protective gloves.
2. When grinding prosthodontic resins, proper ventilation, masks, and vacuum systems should be used.
3. Store at 60°-80°F (16°-27°C), 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. Lucitone Liquid and HY-PRO LUCITONE Denture Base uncured resin are haz-

ardous materials. Dispose of in accordance with Federal, State, and Local regulations.

5. Lucitone Liquid contains methyl methacrylate monomer, a flammable liquid with a flash point of 50°F (10°C). Keep away from heat, sparks, and open flame.
6. Use liquid in a well-ventilated area. Replace cap when not in use.
7. Do not pack denture resin after work time has elapsed or material has become rubbery.
8. Use of wax solvents is not recommended. Residual solvent may cause poor bonding of teeth to acrylic base.

Adverse Reactions:

1. Corneal damage, headache, nausea, and vomiting may occur with exposure to methyl methacrylate monomer. (See Warnings and Precautions statements.)
2. 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.

3. Particulates will be generated when grinding acrylic resins. Eye, skin, and respiratory irritation may occur if appropriate engineering controls are not used.

STEP-BY-STEP INSTRUCTIONS: PROPERTIES AND RECOMMENDED PROCEDURES

The following table describes typical properties of HY-PRO LUCITONE Denture Base Resin plus recommended temperatures and other important processing information. Further amplification of this condensed information is described later in the text.

FLASKING

Use conventional dental compression moulding methods and gypsum materials for flasking.

Type and Class (according to ADA Spec. 12)	Type I Class 1
Storage temperature for powder and liquid	60°-80°F (16-27°C)
Powder/Liquid ratio	21 gm (30 cc)/10 ml
Mixing time (time to wet all particles)	15-30 seconds
Time to reach packing plasticity @ 73±2°F (23±1°C)	3 minutes
Working time	45-60 minutes
Material used to prepare mould	gypsum
Temperature of mould when packing	approx. 110°F (43°C)
Recommended cure time and temperature	
1st stage	1½ hours @ 163°F (73°C)
2nd stage	½ hour @ 212°F (100°C)
Alternate cure time and temperature	9 hours @ 163°F (73°C)
Method of cooling flask, time and temperature	
1st stage	½ hour in air @ 60°-80°F (16-27°C)
2nd stage	¼ hour in water @ 60°-80°F (16-27°C)

WAX ELIMINATION

Soften wax in boiling water for approximately 6 minutes. Separate flask and remove wax by flushing with a solution of boiling water and detergent. Use clean boiling water for the final flush. **DO NOT USE WAX SOLVENTS.** Be sure case is free of wax and grease.

TINFOIL SUBSTITUTE

Apply AL-COTE® Separating Agent liberally to areas of the warm mould (approx. 120°F/49°C) that will contact the resin. Remove excess AL-COTE film with a dry brush. (AL-COTE tinfoil substitute does not form a film on teeth.) The film of AL-COTE should be thoroughly dry (approx. 3 minutes following application) before the resin is packed.

IMPORTANT

Measure powder and liquid accurately. Do not whip air into mix by excessive spatulation.

MIXING



To assure color uniformity, shake powder jar (with a rocking motion) to prevent concentration of small particles at the bottom of jar.

Add 1 unit of powder (21 gm or 30 cc) to 10 ml of liquid. Stir sufficiently (15-30 seconds) to assure wetting of all powder particles. Do not overmix. Cover mixing jar and allow material to reach packing consistency (approx. 3 minutes at room temperature of $73^{\circ} \pm 2^{\circ}\text{F}/23 \pm 1^{\circ}\text{C}$).

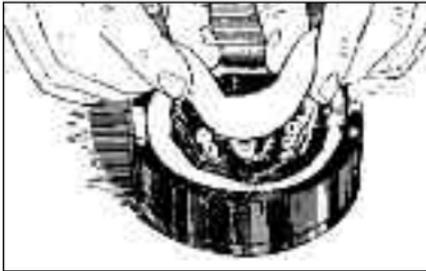
Powder measure and liquid graduate are supplied in packages of HY-PRO LUCITONE. The following table provides the correct ratios for various cases.

CASE	POWDER	LIQUID
Extra Large	45 cc	15 ml
Large	30 cc	10 ml
Average	22 cc	7.5 ml
Partial	15 cc	5 ml

PACKING

HY-PRO LUCITONE resin should be packed in a warm flask (approx. 110°F/43°C). The correct packing consistency is identified when the resin dough is free from stickiness but not rubbery. Remove resin dough from jar and condense with finger pressure into mould.





TRIAL PACKING



Close flask slowly.

Place assembled flask in bench press and apply pressure slowly. If trial pack indicates insufficient resin in some areas, remove cellophane and add resin. Replace cellophane and repeat trial packing. Make certain there is a slight excess of resin.

Open flask, remove cellophane, and trim off excess resin.



Apply AL-COTE film after trial packing has been completed. Be sure AL-COTE film is

thoroughly dry prior to final closure. Then place assembled flask in bench press for final closure. The closed flask should remain under pressure for approximately 30 minutes before the heat-cure process is started.

WORK TIME

The work time of HY-PRO LUCITONE resin is 45-60 minutes at room temperature of $73^{\circ} \pm 2^{\circ}\text{F}$ ($23 \pm 1^{\circ}\text{C}$). Unused mixed material (sealed in a closed jar) can be safely stored in a refrigerator overnight or over a weekend. The dough will remain "packing soft" for several days when refrigerated. Prior to use, remove the closed jar from the refrigerator and bring to room temperature before opening. Otherwise, moisture from the warm air will condense on the resin causing objectionable blushing in the denture.

CURING

Submerge closed flask (locked by compress or spring clamp) in water at $163^{\circ} \pm 2^{\circ}\text{F}$ ($73 \pm 1^{\circ}\text{C}$) for 1 1/2 hours. Follow by 1/2 hour in boiling water. A periodic check of water bath temperature is recommended. Alternate cure: minimum of 9 hours in water bath at $163^{\circ} \pm 2^{\circ}\text{F}$ ($73 \pm 1^{\circ}\text{C}$) No boil is necessary.

CURING OF EXTREMELY THICK CASES

Extremely thick cases require special handling to prevent porosity and excessive surface shrinkage. The following procedure should be employed:

1. Pack material when it reaches a heavy, putty-like consistency (approx. 30 minutes at $73^{\circ} \pm 2^{\circ}\text{F}/23 \pm 1^{\circ}\text{C}$).
2. Condense well during packing by closing flask **slowly** and trial packing at least 3 times.

3. The closed flask should remain under pressure for 30 minutes prior to curing.
4. Use the alternate cure method as specified above.

COOLING

Bench cool the clamped flask at room temperature for 30 minutes. Then immerse in cool water (60°-80°F/16°-27°C) for 15 minutes before deflasking.

FINISHING AND POLISHING

HY-PRO LUCITONE resin should be finished and polished in the usual manner.

REPAIRING AND RELINING

Relines or repairs to the completed denture may be made with self-curing DENTSPLY® REPAIR MATERIAL in accordance with directions provided.

If desired, repairing or relining can also be done by the usual technique using HY-PRO LUCITONE resin itself. Cure in water at 163°F (73°C) for 9 hours—do not boil.

SHADE RECOMMENDATIONS	
DENTSPLY® REPAIR MATERIAL	HY-PRO LUCITONE® DENTURE BASE RESINS
PINK	HY-PRO LUCITONE® Pink
PINK FIBERED	HY-PRO LUCITONE® Fibered
LIGHT FIBERED	HY-PRO LUCITONE® Fibered Light

Marca Registrada - Chile, Guatemala, Mexico. The Trademark under which this product is sold is registered in various countries.

DENTSPLY
TRUBYTE

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