

High Impact-45™ Acrylic Resin

Product Identification

Fracture resistant denture acrylic resin

Package Contents

REF 0530	Net Wt. 454g
REF 0550	Net Wt. 2.3kg
REF 0570	Net Wt. 11.3kg
REF 0580	Net Wt. 45.4kg
REF 0504	Net Vol. 236mL
REF 0506	Net Vol. 946mL
REF 0507	Net Vol. 3.8L
REF 0508	Net Vol. 19L
REF 0534	Net Wt. 454g; Net Vol. 236mL; measuring cups
REF 0556	Net Wt. 2.3kg; Net Vol. 946mL

Intended Purpose

This product is intended for the fabrication of dentures.

Storage Conditions / Instructions

Close container tightly after use. Store in original container in a cool, dry, well-ventilated location, away from sources of ignition and light.

Operating / Handling Instructions



Xi - Irritant

Liquid may cause skin irritation. Avoid contact with skin, eyes and clothing. Wear protective gloves, safety glasses with side shields or chemical splash goggles. Avoid prolonged breathing of vapors. Use with adequate ventilation. Do not smoke in the presence of open containers. See Safety Data Sheet for complete information. SDS is available at www.langdental.com or by contacting manufacturer.



F - Highly Flammable

Warning: flammable liquid. Contains: Methyl Methacrylate Monomer, stabilized. Flash Point: 52.7°F (11.5°C), NFPA, NPCA-HMIS #: H-2, F-3, R-2.

Contraindications

High Impact-45 is contraindicated for persons with allergies to methyl methacrylate.

Other Materials / Equipment Needed

1. Liquid Foil (Tin foil substitute solution)
2. Brush
3. Glass or porcelain jar with lid
4. Stainless steel spatula
5. Cellophane or polyethylene sheets

Instructions for Use

1. Preparing the Flask

Invest the waxed up case in the usual manner. Place flask in a pan of clean boiling water and allow to set for 5 minutes while water continues boiling. Separate flask and remove wax by flushing with a solution of detergent in boiling water. Use clean boiling water for final flush. Be sure case is free of all wax, grease and detergent before continuing.

2. Applying Tin Foil Substitute

With mold at about 120°F (49°C), apply Liquid Foil generously to all areas that will contact the resin. Remove excess with a clean, dry brush and let thoroughly dry (3-4 minutes) before packing cases.

3. Mixing

Pour 11mL High Impact-45 liquid into porcelain or glass mixing jar. Add 30cc (20g) High Impact-45 powder. Stir with a stainless steel spatula until evenly mixed. Place cap tightly on jar. Allow the mix to gel for about five minutes, or until it has reached a dough-like consistency and is not sticky to

the touch of a spatula. From this point, material is workable for 20 minutes.

4. Packing

Cool flask to 68°-77°F (20°-25°C). Trial pack using damp cellophane or polyethylene sheets. Separate flask and remove plastic sheet. If needed, use additional material and repeat process. In trial packing, leave excess material on flanges of flask until ready for final closure. Then remove excess to within 4mm of periphery. Close flask completely.

5. Curing

Place flask in spring compress. Let set for 30 minutes on bench. Immerse flask in hot water, bringing temperature to about 165°F (74°C). Hold flask at that temperature for 1 hour. Then bring water to boil and hold for 30 minutes. Cool on bench for 30 minutes before deflasking.

6. Finishing

Finish case in usual manner using fine abrasives and polishing wheels. If any trace of stone or plaster has adhered to case, soak overnight in a 5% solution of sodium citrate before polishing.

Very thick cases: Use 1½-2 times the material as in step 3. Allow to gel for about 10 minutes, or until it has reached a heavy gel that you can knead in your hands. Pack by taking a 4-5 inch section of material and rolling it into a ½" diameter roll. Place over the teeth and compress with cellophane or plastic wrapped fingers, directing the flow of material to heavy ridge area. Finish packing and compress very slowly. Open the case, trim off excess and add a little more material. Compress and clamp. Let set for 30 minutes on bench. Immerse in warm water (145°-150°F/63°-66°C) and hold for 30 minutes. Increase temperature to 160°F/71°C and hold for one hour. Finally, bring to a boil and hold for 30 minutes. Continue with cooling as in step 5.

Disposal

Dispose of unused material in accordance with local, state and national legislation.

Warranty

Manufacturer warrants this product to be free from manufacturing defects for one year from date of purchase. Warranty is void if product is not used for intended purpose, not used as instructed or not stored in original container.



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