

## High Impact-45

### 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 0534 | Net Wt. 454g; Net Vol. 236ml;<br>measuring cups |

### Intended Purpose

This product is intended for the fabrication of dentures. When used as instructed, product is 100% effective.

### Storage Conditions/Instructions



Keep away from heat, sparks and open flame. Keep container closed when not in use. Store in original container. Store between 36°F and 90°F (2°C and 32°C).

### Operating/Handling Instructions



F - Highly Flammable



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 Material Safety Data Sheet for complete information. MSDS is available at [www.langdental.com](http://www.langdental.com) or by contacting manufacturer.

### Operating/Handling Instructions (Continued)

**Warning:** flammable liquid. Contains: Methyl Methacrylate Monomer, Inhibited. Flash Point: 52.7°F (12°C), (T.C.C.) NFPA, NPCA-HMIS #: H-2,F-3, R-2.

### Contraindications

High Impact-45 is contraindicated in patients with allergies to chemicals.

### Other Materials/Equipment Needed

1. 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 tin foil substitute generously to all areas that will contact the resin. Remove excess tin foil substitute with a clean, dry brush and let thoroughly dry (3-4 minutes) before packing cases.

3. Mixing

Pour 10ml High Impact-45 liquid into porcelain or glass mixing jar. Add 30cc of 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

30cc ≈ 22g

1 of 2.

#### Instructions for Use (Continued)

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

#### Instructions for Use (Continued)

(145°-150°F/63°-66°C) and hold for 30 minutes. Increase temperature to 160°F/71°C and hold for one hour. Increase to 165°F/74°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.

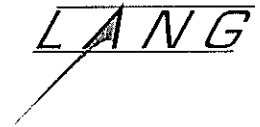
#### Warranty

Manufacturer warrants this product to be free from manufacturing defects for one year from date of purchase. Warranty is void if product is used for other than intended purpose or other than instructed.

#### Authorized Representative in EU:

MediMark® Europe  
BP 2332  
38033 Grenoble Cedex  
France

Lang Dental Mfg. Co., Inc.  
Wheeling, IL 60090-0969  
www.LangDental.com  
Made in USA  
Ph 847-215-6622  
Fax 847-215-6678

The logo for LANG Dental, featuring the word "LANG" in a stylized, italicized font with a horizontal line through the letters.The CE mark, consisting of the letters "C" and "E" in a bold, sans-serif font.

LDD 05 REV.1

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