



## INSTA-MOLD INSTA-MOLD FEATHERWEIGHT INSTANT SILICONE TECHNIQUE & APPLICATION FOR USE

These step-by-step instructions illustrate how easy it is to make Insta-Mold process earmolds as loaners or for permanent use, swim molds, and noise protectors. The user of this product will experience no difficulty in producing ear fittings of excellent quality after a short period of practice, usually 2 to 3 molds.

### **I. Examine Clients Ear**

Use an otoscope to examine client's ear. If there are any indications of excessive earwax, recent surgery, or other contradictions, have client seek medical clearance before proceeding.

### **II. Swab the Outer Ear**

Swab outer ear with Hand Lotion provided in kit. Place a few drops of lotion on cotton swab. This will lubricate the ear canal and clean out any debris. **DO NOT STICK SWAB BEYOND FIRST BEND IN EAR CANAL.** You should be able to see end of cotton swab at all times.

### **III. Insertion of Otoblock**

The cotton or foam block protects the ear and helps spread the Insta-Mold instant silicone in the ear canal for a tighter seal. Insert the otoblock just past the first bend of the ear canal. This will permit the earmold to have enough canal length for an adequate seal.

### **IV. Measuring & Mixing Insta-Mold Instant Silicones**

#### **A. Insta-Mold Featherweight Silicone Mix**

*\*Consists of 2 Equal Silicone Parts: 1) Part A & 2) Part B*

*Featherweight Silicones are Temperature Dependent: If you want extra working time, store at a cooler location (not below 60°F). If you want a quicker cure, warm the material in your hands before/after the kneading process, but before placing into a syringe.*

#### **1. Matching Batch Numbers**

Part 'A' and Part 'B' silicones **MUST** have matching batch numbers. Use material that is received together, discard leftover material if you do not have both part to make mold.

#### **2. Contamination**

Keep Featherweight silicone away from certain contaminants: Sulfur Groups (latex), Amine Groups (ammonia), Alcohols, and other silicone catalysts. Only use Hand Lotion provided in your Insta-Mold kit.

#### **3. Measuring**

Each order of Featherweight will include (2) sets of spoons. Each set consists of 3 spoons (1/8 tsp., 1/4 tsp., & 1/2 tsp.) for appropriate use with different sized ears. One of the sets will be white in color and all 3 spoons will be marked 'A', the other set will be colored green and all 3 spoons marked 'B'. Use appropriate spoon with corresponding jar; do **NOT** intermix spoons.



-Lightly lubricate fingertips with Insta-Mold Hand Lotion provided in kit. Use lubricated/oily fingertip to lubricate the bowl portion of the appropriate measuring spoon. Fill the desired spoon 'B' with a level amount of Insta-Mold Part 'B' and smooth out material with finger to level if necessary. To avoid cross contamination, wipe excess silicone off hands before measuring Part 'A'. Using same size spoon, repeat above procedure using Part 'A' silicone and spoon.  
-Remove both Part 'A' and Part 'B' silicone from spoons and place in your hand.

#### 4. *Mixing*

Combine equal parts 'A' and 'B' in your hand and knead materials with your fingers by folding and stretching them until a uniform color and consistent texture is achieved. This usually requires 30 to 35 kneads which takes about 35 to 40 seconds.

Do NOT rush; Featherweight Silicones are formulated to give you approximately 2 minutes of working time.

#### V. **Form a Silicone Cone**

Roll mix between palms of hands. Be sure there are no cracks in the cone, because this may cause a crack in the finished mold.

#### VI. **Inserting Silicone Into Ear**

*(Before continuing, it is imperative to carefully place an appropriately sized otoblock in the ear canal.)*

Insta-Mold recommends use of a syringe for inserting silicone into the ear in order to get the maximum performance and seal.

1. Insert 'cone-shaped' silicone into barrel of silicone syringe.
2. Make sure the collar of the plunger is at the tip of the plunger and proceed to place collar on top of silicone material.
3. Insert plunger into barrel which will push the silicone material into barrel of syringe and depress so that the collar is flush with the end of the barrel.
4. Depress the plunger until the Insta-Mold silicone is visible in the tip of the syringe.
5. Place the tip of the syringe in the ear canal up against the otoblock.
6. Inject the silicone with a steady pressure, slowly withdrawing the syringe as the ear canal fills.

Make sure to keep the tip of the syringe buried in the material at all times to avoid gaps and cracks and from trapping air pressure between silicone and ear canal. Do NOT overfill, keep mold flush or even to the outer bowl of the ear.

#### VII. **Smoothing**

While the silicone is still soft, the outer surface of the earmold can be smoothed out with your finger to remove any creases and give the exterior of the mold a professional look. To improve the smoothing process, place a small drop of Insta-Mold Hand Lotion on your fingertip and smooth with gentle pressure.



## **IX. Inserting Handles & Cords**

*(Another convenient way to identify earmolds)*

### 1. Handles:

-Use a blue handle for the left ear and a red handle for the right ear. Insert or push top of "T" shaped handle into the uncured silicone material. Work material around/over ends so that the wedge part of the handle is the only thing exposed.

### 2. Cords:

-Cords are available so plugs can be worn around the neck. Simply, double-loop the cords through the hole in the handle.

## **X. Removing the Mold, Trimming & Shaping**

*(For best results, leave silicone material in ear for all long as possible. This will allow for increased physical properties, less chance of breakage and greater memory.)*

**ON AVERAGE, AFTER (7 – 10) MINUTES THE MOLD CAN BE REMOVED FROM THE EAR.**

### 1. Removing the Mold

-Break the seal by pulling back on the top of the ear and grab the mold. Remove by rotating the top of the mold towards the nose slowly and steadily until free from the ear canal. Holding onto the otoblock string while removing the mold is encouraged and will help the mold to release.

Once the earmold is removed and is fully cured, pull the otoblock off the end and discard. If part of the otoblock remains on the mold, remove using a razor to cut off otoblock. Cut a flat edge.

### 2. Trimming & Shaping

-Trim any flash material from the outer surface with scissors

-Rough or sharp edges may be smoothed or rounded using Dremel or similar tools with sand paper or stone attachments.

-Do NOT smooth out any imperfections that come in contact with the inside of the ear. This will eliminate the advantage of the 'Tissue-to-Tissue Fit'.

Clean off any excess earwax with a cotton swab and alcohol

## **XI. Applying Insta-Seal Plus**

*(After applying Insta-Seal Plus, the earmold cannot be worn for 6 hours.)*



Insta-Seal Plus will give your earmolds a smooth, professional, and shiny look as well as keep them clean and last longer. It can be used to repair cracks or separations and to tighten or retighten your mold in the future.

Before applying, remove any excess body oil, earwax and hand lotion with a cotton swab.

To hold the earmold while coating, insert toothpick in the canal portion of the mold. (If it has a handle, insert toothpick into the outside of the handle.)

Coating of Insta-Seal may be done using a cotton swab to paint mold or by pouring liquid into a cup and dipping mold into cup. If dipping, make sure to rotate mold several times in seal to ensure an even spread and allow excess liquid to drip back into cup. Do not pour excess Insta-Seal back into bottle, discard liquid.

If an even tighter seal is desired, apply as many coats as desired waiting (3 – 5) minutes between intervals.

#### **Repairing Cracks or Separations with Insta-Seal Plus**

-Apply liberally with a cotton swab to the center of the split. Wait for (30 – 60) seconds and then press the two sides of the split together. Continue to hold in this position for approximately 2 minutes to create a seal that will weld the sides of the split together. Then apply a coating of Insta-Seal Plus over the entire mold.

#### **XII. Drying**

Stick toothpick with coated mold into corkboard, cardboard or foam sponge and let dry for at least 5 minutes.

The ear protector from water or noise is now finished.

Client CANNOT wear mold for another 6 hours.

#### **XIII. Finishing**

**REMIND CLIENT THAT THEY CANNOT WEAR FINISHED PRODUCTS FOR 6 HOURS AFTER APPLICATION OF INSTA-SEAL PLUS.**

**DO NOT PLAY WITH, BEND OR FOLD EARMOLDS AFTER REMOVAL FROM THE EAR. Wait a few hours until mold gains high tear strength properties.**