



ECHO® is a universal hydrocolloid, which has been designed to produce molds for the fabrication of partial and full dentures utilizing the fluid resin technique. ECHO® is also used to create refractory and dental stone models.

MELTING PROCEDURES

Remove as much material as required. Cover and seal the remaining portion in the container.

Chop material into small pieces; heat and carry out the melt cycle in a stainless steel enamelware or Pyrex glass container. Avoid the use of aluminum, copper or iron bearing alloyed containers. If automatic melt equipment is employed, follow manufacturer's instructions. *However, the melt temperature should be set at 97°C (207°F) and the pouring temperature set at 55°C (131°F).*

If a Microwave or Hotplate is used, avoid overheating and/or scorching the material. Stir occasionally until all the particles are melted into solution. Heat to 97°C. (207°F.) for no more than one (1) minute. Remove from the heat source and stir occasionally allowing the material to cool to 55°C. (131°F.)

USAGE

Properly soak models using Cast Conditioning Concentrate™ Item # 4492-00 (wetting agent). Fill flask with ECHO® Duplicating Material. Bench set at room temperature for 15 minutes and chill in a cold water bath at 10°C. (50° ± 10°F.) for 30 minutes. Chill longer if the water temperatures are warmer than 15°C. (60°F.)

REFRACTORY MODEL AND STONE MODEL DUPLICATION

Remove master model and wash mold gently with cold running water. Place the mold (open side down) on bench to prevent drying and shrinkage. Mix investment or stone as per manufacturer's instructions. Fast setting stones may be removed approximately thirty (30) minutes after initial set, whereas slower setting stones will require more time – approximately 45 to 60 minutes. Remove Cast from mold and trim. Rinse with water.

FLUID RESIN (POUR TECHNIQUE)

Properly soak the model with teeth facing down so air escapes through base of model. Position the model in the flask in the proper manner. Fill the flask with ECHO®. Bench set at room temperature for 15 minutes. Chill the flask at 10°C. (50° ± 10°F.) for thirty (30) minutes. After chilling, disassemble the flask and remove the mold. Slit the mold in three or four places (being careful not to cut down onto the waxed areas) and remove the wax-up. Cut the desired sprue and venting holes and then rinse the mold in cold running water. Blow dry with light air jet. Cover the mold with a damp towel until the resin mixture is ready to be poured into the mold. The fluid resin technique manual is available at your request from Fricke Dental International.

NOTES:

After molds have been used, they should be rinsed free of any stone, acrylic or refractory debris and stored in a CLOSED, AIRTIGHT container until the next re-melt cycle. Any liquid that separates from the used molds during storage should NOT be discarded but added during the next re-melt cycle.

After several re-melts, the duplicating material may thicken and pour slowly at the pouring temperature of 55°C (131°F). The resulting molds may appear dry and somewhat brittle. To eliminate this problem, add 150 ml of distilled water for EACH 2 gallon bucket of ECHO® being melted at the beginning of the re-melt cycle.

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