

Pouring Stone Models

DEN2318

Learning Objectives

- Learn how to mix stone
- Learn how to pour stone into an impression
- Learn how to add a “base” to the stone model
- Briefly review how to separate a stone model from the impression once it sets

Preparing the Impression to be Poured

- Disinfect the Impression.
- Shake out any water in the impression.
- Select which **gypsum** you will be using
 - Study Model? Type II
 - Working Model? Type III
 - Crown and Bridge? Type IV
- Box the Impression?
- Pre-measure your powder and water

Gypsum Types

Type II



Type III



Type IV

Type III

Type II



POWDER ALWAYS GOES INTO WATER

- When pouring impressions with gypsum stone, the correct way is to POUR THE STONE INTO THE WATER.

- Once the powder and water have been spatulated by hand, rest the mixing bowl on top of the vibrator so that the air bubbles can be vibrated out
- The next step is pouring the liquid stone into the impression
- Cover the vibrator with a headrest cover



Pouring the Stone into the Impression

- Hold the impression on the vibrator
- Starting from one end of the impression, very slowly allow the stone to drop from the spatula into the most distal tooth of the impression.
- Allow the liquid stone to very slowly flow into each of the teeth, one-by-one.
- As the liquid stone continues to flow, keep adding more stone to that same location of the distal-most tooth.

Separating the Stone Model from the Impression

- Gently “tease” the stone model out of the impression
- You can gently rock it back and forth or side to side as you “tease” it out of the impression
- This takes practice to master
- Do not rush because the model can break

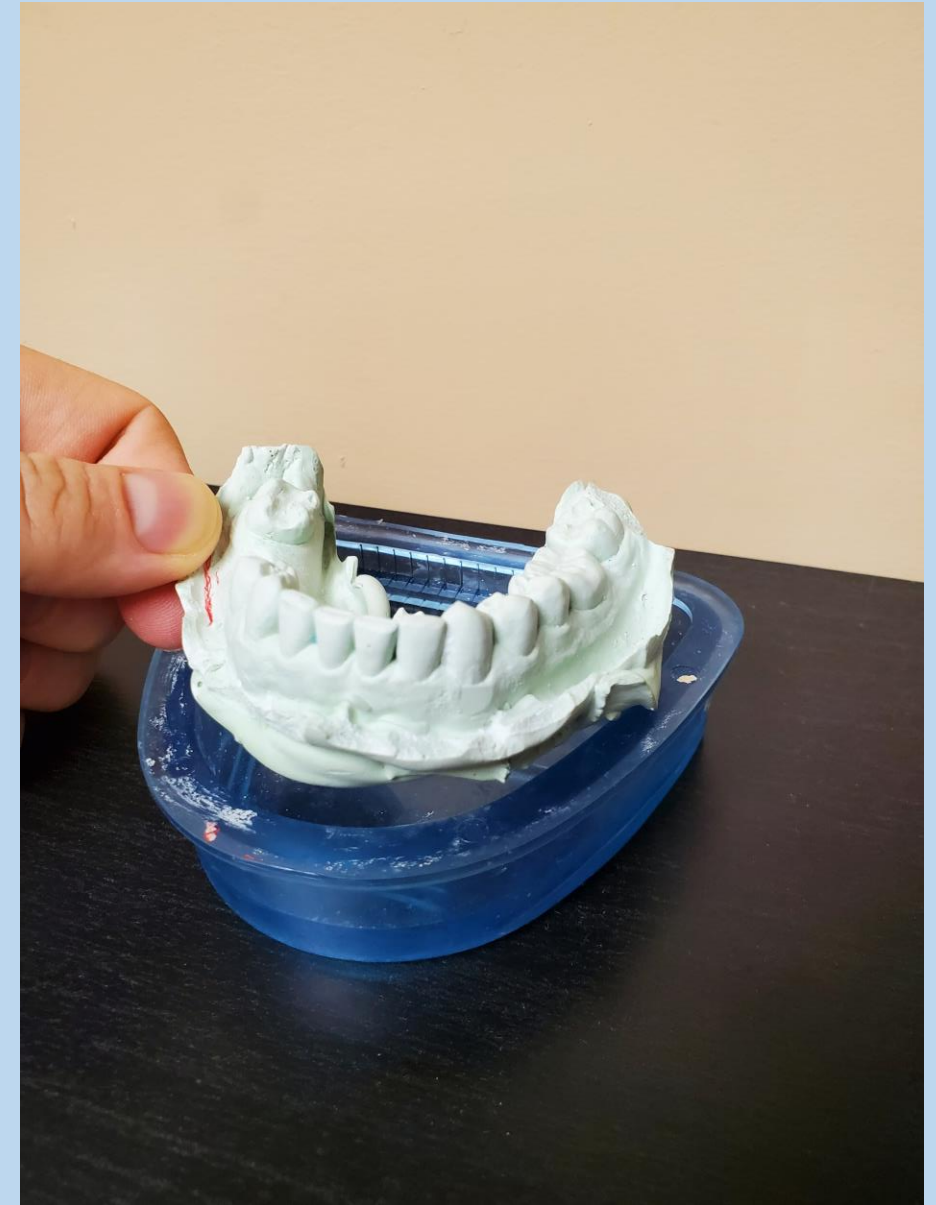
Pouring Up the Alginate, Adding Base, Removing Stone Model



Creating a Base for the Model

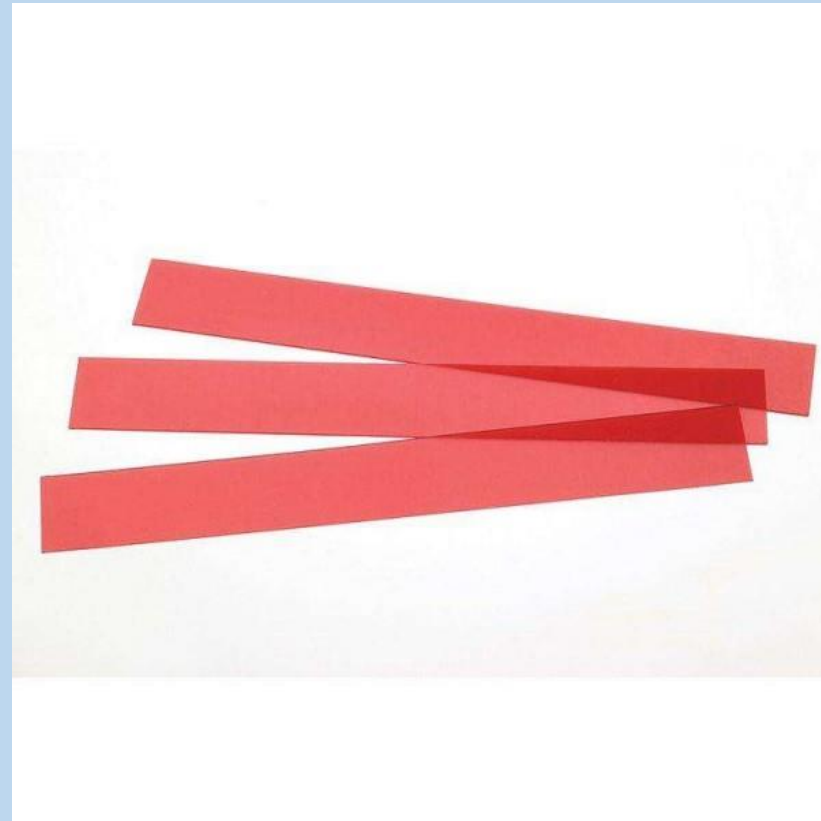
- There are several ways to add a base to a stone model
 - 1) After pouring the impression, while it is still wet, turn it upside down onto a “base” of wet stone (shown in video)
 - 2) Wait for the poured impression to set, then use a base former to add a base
 - 3) Use Boxing Wax to surround the impression before pouring it

Base Former



Boxing Wax

- Wrap boxing wax around the impression
- You can use a hot instrument to get the wax to stay put around the impression -OR-
- You can use a rubber band to keep the boxing wax around the impression.



Using Boxing Wax to Pour an Impression

