Creating a Cast Marble Effect

Creating a realistic cast marble effect is possible with Smooth-Cast® 325 liquid plastic. Ure-Fil® 7 or Omyamarble is mixed with SC 325 casting resin until the mixture is thick and creamy. This mixture is then simultaneously cast with black pigmented Smooth-Cast® 325 to create the "veining" effect commonly found in marble. Getting the effect you want will take practice and we offer the guidelines below as a step by step outline to get you started.

Products Needed:

A. Ure-Fil® 7 or Omyamarble Powder *(Note: either filler may be used)*

B. Smooth-Cast® 325 Casting Resin

C. SO-Strong® Color Pigment (black & white)

A. Ure-Fil® 7 or Omyamarble should be completely free of moisture.

B. Casting Resin - Smooth-Cast® 325 Colormatch is recommended because it is "color neutral" and readily accepts powders and/or pigments.

C. Liquid Pigment - Adding a pigment to the resin/Ure-Fil® 7 mixture will give the final casting added definition and dimension.

Also required: Rubber Mold; Mold Release Agent; measuring and mixing containers; mixing paddles; Gram scale or triple beam balance for weighing components.

Amount of resin, Ure-Fil® 7 / Omyamarble Powder and pigment required will vary depending on the desired effect. You will have to experiment by varying the amounts of resin, Ure-Fil® 7 / Omyamarble and pigment used in combination to attain an effect that suits your application.

*In this example, we will use the following proportions:*

Part B of SC 325 Resin : 100 Parts,  
Ure-Fil® 7/Omyamarble Powder : 100 Parts

Part A of SC 325 Resin: 100 Parts,  
SO-Strong® Pigment: Black & White (1/2 Part Each)

*Measuring can be done by volume. Greater accuracy is achieved with a gram scale.*

1. Apply Release Agent to Rubber Mold** - If casting into a urethane rubber mold, prevent resin mixture from sticking to rubber mold with application of a spray mold release agent (Ease Release® 200) into mold cavity and all surfaces that will contact the resin. Brush lightly and follow with second light mist coating. Let dry for 20 minutes.

2. Create Ure-Fil® 7 / Omyamarble Powder Pre-Mix: mix Ure-Fil® 7/Omyamarble Powder thoroughly with Part B of SC 325 (Blue Label). Dispense 100 Parts of Part B into clean mixing container. Add 100 Parts of Ure-Fil® 7 / Omyamarble Powder and mix thoroughly. The consistency of the mixture will be very thick.
3. Create White Pigmented ‘Part A’ Pre-Mix - Dispense 100 parts of Smooth-Cast® 325 Part A into mixing container and add 1/2 part of white pigment. Mix thoroughly.

4. Create A Black Color Concentrate For Veins - Dispense 1/2 part of Smooth-Cast® 325 Part B into a separate mixing container. Add 1/2 part of black liquid color dispersion. Mix thoroughly. This color concentrate will be added to the Ure-Fil® 7/Omyamarble Powder mixture prior to pouring. You can use other SO-Strong® colors besides black to create the vein; green, blue, red, etc.

5. Combine Part A (with pigment) & Part B (with Ure-Fil® 7/Omyamarble Powder) and mix thoroughly.

6. Pour Mixture While Adding Pigment - Slowly pour the SC325/Ure-Fil® 7/Omyamarble Powder mixture into mold cavity. At the same time, pouring the black pigmented resin. This dual pouring technique will create the swirl or "veining" effect that is commonly found in marble. As we said earlier, achieving an acceptable veining effect may take some practice.

7. Allow Casting To Cure Before Demolding - Remember: the resin/Ure-Fil® 7/Omyamarble mixture or filled resin will take longer to harden than unfilled resin. Cure time depends on size of casting, mold configuration, amount of fillers used, etc. Generally 30 to 40 minutes is a sufficient amount of time. Applying mild heat will accelerate cure time. Let cool to room temperature

8. Demold the casting from mold - lightly polish casting with a wax until the desired luster is attained.

** Use only a release agent specifically made for mold making and casting such as Universal Mold Release® or Ease Release 200® (both available from Smooth-On and its distributors).