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## TECHNICAL INFORMATION

### ZIP-MIX™ Plaster Casting

#### Catalog No. ZMP100

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#### INTRODUCTION

Impression evidence exists at many crime scenes but is often overlooked unintentionally or the evidence team is unfamiliar with the proper collection procedures. The ZIP-MIX™ Plaster Casting Outfit provides pre-measured amounts of plaster and a mixing solution for casting of one full adult-sized footprint, thus taking the guesswork out of mixing the proper quantities. The outfit consists of 2 lbs. of casting material and 16 oz. of treated mixing solution and a plastic mixing bag.

#### PRECAUTIONS

- Before using this product, consult the appropriate Material Safety Data Sheets (MSDS) found on our website at [www.sirchie.com/support](http://www.sirchie.com/support).
- The mixing solution contains an exothermic retardant and is not suitable for human consumption.



## PROCEDURE

1. Carefully remove loose debris lying on top of the impression, but not objects imbedded in the impression. Place a casting frame around the impression if required.
2. Photograph the impression using a photographic scale.
3. Apply at least three coats of Dust & Dirt Hardener (No. 638CA) to the impression. Do not spray the first coat directly onto the impression, rather spray from at least 12-inches away and allow the spray to fall on the impression. Allow 2-3 minutes drying time between coats.
4. After the hardener is dry, apply one even coating of Silicone Release Agent (No. SRA10).
5. Empty the entire container of mixing solution into the mixing bag containing the plaster and seal the zip-tip closure.
6. Knead the mixture with both hands until no lumps are felt. Mixing time should be limited to approximately 2 minutes.



*Apply Dust & Dirt Hardener onto shoe print.*



*Pour supplied water into zip-top bag and seal.*



*Knead bag for 1-2 minutes until well mixed.*



*Pour into impression (optional equipment shown).*

7. Slowly pour the mixture into the impression using a spoon or similar device to break the fall of the casting compound.
8. After pouring half of the mixture, place reinforcement material (popsicle sticks, short lengths of wire, No. 639C5 Wire Reinforcement, etc.) on top of the casting material, and then add the remaining casting material to the impression.
9. Allow at least 30 to 45 minutes drying time before attempting to remove the cast.
10. Carefully lift the cast from the impression. It may be necessary to pry it loose using a spoon or similar device. Invert the cast and allow the bottom surface to continue drying for at least an additional 30 minutes.
11. Transport the cast to your headquarters and allow it to dry for at least 24 hours before packaging it for transmittal to the crime laboratory.

**ZMP100 CONTENTS:**

- 1- ZMP101 Bottle of pre-treated water, 16 oz. (473ml)
- 1- ZMP102 Package of Plaster, 2 lbs. (907g)
- 1- ZTE031 Zip-Mix™ Mixing Bag, 13' x 18" (33cm x 45.7cm)

**ACCESSORY PRODUCTS:**

- FCF100 7.25" x 12"-18"
- FCF200 12" x 18"-24"
- 639C5 Wire Mesh Reinforcement, 2'x 4' (5.1cm x 10.2cm), 10 ea. (not pictured)
- 638CA Dust and Dirt Hardener, 15 oz. (425g) aerosol can
- SRA10 Silicone Rubber Release Agent, 4.5 oz. (128g) aerosol can



No. FCF200



No. SRA10



No. 638CA