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## TECHNICAL INFORMATION

### Disposable Casting Frames and Disposable Shake-N-Cast™ Kit Catalog Nos. IMP00001, IMPSNCD4

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#### INTRODUCTION

Tire and footprints in soil are frequently found at crime scenes and the accepted method of recovering these impressions is to first photograph them with a scale visible in all photos taken and then to make a cast. A casting frame is recommended in most circumstances to contain the wet casting material until it dries. The IMP00001 Disposable Casting Frames are assembled in seconds and will provide sturdy barriers for the containment of the wet casting materials. One of the advantages of using a single-use disposable casting frame is that there is no time-consuming cleanup often encountered when using metal frames.

The IMP00001 contains four (4) individual frames. Each frame consists of two (2) strips of heavy duty, moisture-resistant, corrugated COREX material, which offers superior strength, no contamination, and an easy release of the cast from the frame. One strip is equipped with double-stick tape on each end to facilitate assembly.



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## PROCEDURE

Disposable casting frames provide a fast, economical and practical method of containing casting material as it is drying. The frame is equipped with adhesive strips making it possible to assemble a size that will accommodate small or large impressions. The smallest assembled size of a single unit is 8"L x 8"W (20.3cm x 20.3cm). For best results, the extended size should not exceed 15" (38.1cm). NOTE: Multiple units may be fastened together to make larger frames as necessary.



FIGURE 1

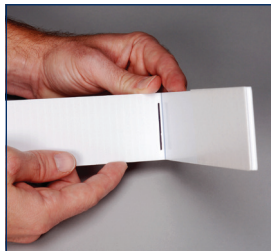


FIGURE 2



FIGURE 3

### Assembly and Use

1. Remove the paper cover from the double-stick tape on one end of one COREX strip (Fig. 1).
2. Bend the two (2) COREX strips along the black lines as shown in Fig. 2.
3. Position the two COREX pieces alongside of the impression to allow sufficient length with at least 0.5" (1.27cm) space at each end of the impression.
4. Press the section of COREX equipped with the tape against the other side piece of the frame (Fig. 3).

- Repeat this with the other end of the strip by removing the paper cover on the tape strip and pressing the two ends together.

- Gently press the frame into the soil around the impression. If the soil is hard, pack some loose dirt along the ends and sides to prevent casting material from seeping under the frame (Fig. 4).

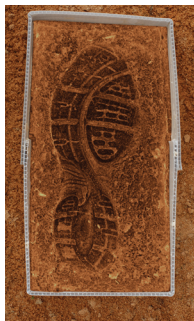


FIGURE 4—Footprint in soil



FIG. 5A—Plaster



FIG. 5B—Dental Stone

- Prepare the impressions according to instructions included with the casting material to be used such as Shake-N-Cast™, Hard-Core Blue™, or similar casting material (Figs. 5A-5B). This involves removing any foreign debris such as leaves, twigs, trash, and then, if required, applying a hardener such as SIRCHIE's 648CA Dust and Dirt Hardener.
- After the cast has dried sufficiently, pick up the cast and frame, the frame may be removed as the COREX plastic will not stick to the casting material. Another option is to submit the cast to the lab with the frame still in place. NOTE: Resulting plaster cast is shown to the right (Fig. 6).



Fig. 6—Resulting Cast

### **Disposable Shake-N-Cast™ Kit**

The IMPSNCD4 kit (shown to the right) combines four (4) pre-measured Shake-N-Cast™ pouches with two (2) IMP00001 Disposable Casting Frames. The kit contains enough materials to cast 2-4 impressions, depending on the size, and one large tire impression. Once the casting is done, place bags and used frames into included plastic bag and dispose. Easy clean up—no mess.



### **IMPSNCD4 Contents**

- 2- IMP00001 Disposable Casting Frames
- 4- SNC42 Shake-N-Cast™
- 1- Zip-top Plastic Bag 13" x 18"

### **References**

Basic Equipment for Crime Scene Investigators, by M/Sgt Hayden B. Baldwin, <<http://www.feinc.net/equipmt.htm> > April 20, 2009

Crime Scene Investigator, “Footwear, The Missed Evidence,” Dwayne Hilderbrand:<<http://www.crime-scene-investigator.net/footwear.html>>, May 27, 2009

Saferstein, Richard, Ph.D., Criminalistics, New Jersey: Prentice Hall; 2001