

# Evidence Casting

**SSPA**

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Our series of casting materials, kits, and supplies were developed to collect impressions left at a crime scene. These impressions help to provide the investigator with the information needed to identify suspects. We offer various materials for casting including plaster, dental stone, and silicone.

Available from : **SSPA** +612 4645 7600 [www.sspa.net.au](http://www.sspa.net.au)



## CASTING MATERIALS



### Plaster Casting Material

Our special, superfine formulation of calcium sulfate plaster is used to make accurate reproductions of tire and footprint evidence. It contains an exothermic retarder additive to prevent shrinkage while curing. Each 1 gallon metal container provides nine pounds of Plaster Casting Material. An instruction sheet provides necessary guidelines for use of the Plaster Casting Material as well as helpful tips for superior results.

Our empty plastic Water Containers allow you to carry a ready source of clean water for use in mixing your plaster casting material.



Reorder No.	Description
CMP-9	Plaster Casting Material - 9 lbs.
JUG64OZ	Water Container - 64 oz. (empty)



### Dental Stone Casting Material

Even with a minimum amount poured into the impression, our gypsum-based Dental Stone provides detailed reproductions of impressions in a casting of unbelievable strength. Nine pounds of Dental Stone Casting Material are supplied in a 1 gallon metal container. Also included is an instruction sheet providing both guidelines for use and tips for creating superior castings.

Our empty plastic Water Containers allow you to carry a ready source of clean water for use in mixing your dental stone casting material.

Reorder No.	Description
CMD-9	Dental Stone Casting Material - 9 lbs.
JUG64OZ	Water Container - 64 oz. (empty)

### Silicone Casting Material

Silicone is used for making accurate casts of footprints, tire tracks, tool marks, and for lifting dusted prints from textured surfaces or irregularly shaped objects. Our liquid Silicone Rubber Casting Material and Catalyst are supplied in 2 lb. and 8 lb. cans, along with 3.2 oz. and 12.8 oz. containers of Catalyst, respectively, and a 3 ml. bottle of Accelerant.

Preparing the silicone for casting is simple and straightforward. Combine 10 parts of silicone rubber with one part catalyst and add one to two drops accelerant and mix. Pour silicone mix in the impression and let cure for 15 to 30 minutes (at 70°F, 50% relative humidity). A detailed instruction sheet is supplied with each order.



Reorder No.	Description
CMS-2	Small Can Silicone Casting Material - 2 lbs. (32 oz.)
CMSC-3	Small Silicone Catalyst - 0.2 lbs. (3.2 oz.)
CMS-8	Regular Can Silicone Casting Material - 8 lbs. (128 oz.)
CMSC-12	Regular Silicone Catalyst - 0.8 lbs. (12.8 oz.)
CMSA-3	Silicone Accelerant (for use with small & regular) - 3 ml. (0.10 oz.)



## TUFF-TRAK

**NEW ITEM**

TUFF-TRAK is an easy-to-use casting material, providing incredible impression detail and unsurpassed strength with a compression rating of 18,000 PSI.

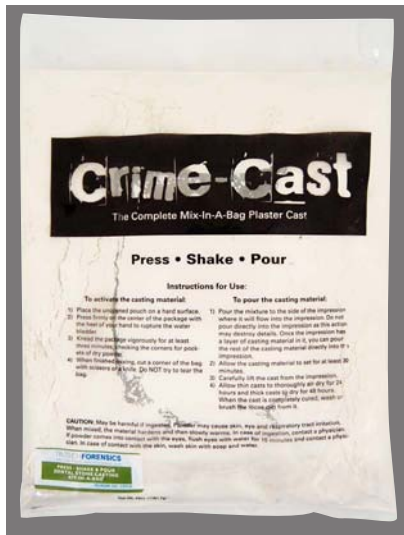
To make casting quick and easy, TUFF-TRAK is self contained in convenient 2 pound bags. Simply pour 9 ounces of water into the sturdy bag and squeeze until you have a smooth green mixture, then pour the material into the impression to be cast. Allow 20-30 minutes to set and remove the molded TUFF-TRAK cast for perfect impression evidence.

Our empty plastic Water Containers allow you to carry a ready source of clean water for use in mixing your TUFF-TRAK casting material.



Reorder No.	Description
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CMT-2	TUFF-TRAK - 5 bags/case
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## Press, Shake, & Pour Casting Kit-In-A-Bag

This self-contained Casting Kit-In-A-Bag consists of a 9" W x 11" H, 6 mil. thick polyethylene outer bag which contains a water bladder and the appropriate amount of casting material to cast both tire and footprint impressions. Simply place the bag on a flat surface, press down on the bag to break the internal water bladder, shake bag to mix, then pour. No mess, no measuring, no hassle.

Reorder No.	Description
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CMD-K	Casting Kit-In-A-Bag
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## Mikrosil® Casting Putty Kit

Mikrosil® Casting Putty is used when highly detailed castings of tool and jimmy marks are required or for lifting dusted latent prints off a rough or round surface. Mikrosil® has been formulated to give excellent rendering of small details, highest contrast for microscopic observations, good releasing ability for the cast, and short curing time.

To use Mikrosil®, simply mix the putty and catalyst on a mixing card with the supplied spatula and apply it to the surface being cast. Within six to eight minutes, the cast will be set. Mikrosil® even works in below freezing temperatures, creating a perfect cast within fifteen minutes!

### Mikrosil® is available in four colors:

- **Brown** - the color which many tool mark examiners prefer; the dark color increases the visibility of detail in the casts made from tool marks, firing pin marks, breech face marks, and other marks on cartridge casings.
- **Gray** - is preferred by other tool mark examiners who photograph the contrast between the light-colored surface and shadows produced from side-lighting.
- **White or Black** - can be used to lift dusted latent fingerprints from rough or textured surfaces where regular lift tape will fail. Use white Mikrosil® with black powders; use black Mikrosil® with white, silver, or fluorescent powders.



Reorder No.	Description
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CM-MIK-BR	Mikrosil® Casting Putty Kit - Brown
CM-MIK-G	Mikrosil® Casting Putty Kit - Gray
CM-MIK-W	Mikrosil® Casting Putty Kit - White
CM-MIK-B	Mikrosil® Casting Putty Kit - Black
CM-MIK-CAT	Additional Tube of Catalyst - 20 g.

Available from : **SSPA +612 4645 7600 www.sspa.net.au**



## AccuTrans® Automix Dispensing System

**NEW ITEM**

AccuTrans® is a revolutionary, non-toxic polyvinylsiloxane evidence casting material specifically designed for forensic applications. Its flexible design is highly resistant to tearing and provides users with the best dimensional stability. AccuTrans® works similar to a caulk gun. There is no messy mixing required. Simply load the gun, depress the trigger, and you get an even, accurate flow. Tool marks and castings cure in just four minutes at 68°F (25°C). AccuTrans® also works great for lifting latent prints from rough or curved surfaces. Once lifted, prints are permanent and cannot be smeared or smudged. AccuTrans® is available in three colors, each of which offers users with the specific benefits listed below.

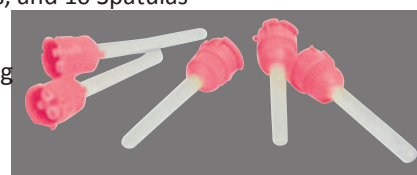


### AccuTrans® is available in three colors:

- **Transparent** - This clear, self-pooling material eliminates reverse prints and provides users with zero distortion. It is ideal for use on rough or curved surfaces. This material also works great on skin and blood prints.
- **White** - AccuTrans® White is the perfect way to lift and preserve latent prints from rough, curved, and textured surfaces. It is also ideal for use in casting gun barrels and palm prints.
- **Brown** - AccuTrans® Brown provides exceptional detail when casting tool or pry marks. Its deep, dark color reduces glare, making examination under a microscope easy and straightforward. The material is also ideal for use in casting gun barrels and shell casings.

### AccuTrans® Kits:

- **Accutrans® Starter Kit** (Reorder No. CM-ACCU-SK)
  - Includes 1 Black Nylon Bag, 1 Dispensing Gun, 1 Brown Cartridge Tube (75 ml.), 1 White Cartridge Tube (75 ml.), 1 Transparent Cartridge Tube (75 ml.), 40 Mixing Tips, 10 Spatulas, and 6 Spreader Tips
- **Accutrans® Intro Kit, Brown** (Reorder No. CM-ACCU-IBK)
  - Includes 1 Dispensing Gun, 2 Brown Cartridge Tubes (75 ml.), 40 Mixing Tips, and 10 Spatulas
- **Accutrans® Intro Kit, White** (Reorder No. CM-ACCU-IKW)
  - Includes 1 Dispensing Gun, 2 White Cartridge Tubes (75 ml.), 40 Mixing Tips, and 10 Spatulas
- **Accutrans® Intro Kit, Transparent** (Reorder No. CM-ACCU-IKT)
  - Includes 1 Dispensing Gun, 2 Transparent Cartridge Tubes (75 ml.), 40 Mixing Tips, and 10 Spatulas



### AccuTrans® Refills:

- **Accutrans® Refill, Brown** (Reorder No. CM-ACCU-RB4)
  - Includes 4 Brown Cartridge Tubes (75 ml.)
- **Accutrans® Refill, White** (Reorder No. CM-ACCU-RW4)
  - Includes 4 White Cartridge Tubes (75 ml.)
- **Accutrans® Refill, Transparent** (Reorder No. CM-ACCU-RT4)
  - Includes 4 Transparent Cartridge Tubes (75 ml.)

### AccuTrans® Accessories:

- **AccuTrans® Dispensing Gun** (Reorder No. CM-ACCU-DG)
  - Includes 1 gun per package
- **AccuTrans® Mixing Tips** (Reorder No. CM-ACCU-MT40)
  - Includes 40 mixing tips per package
- **AccuTrans® Wide Spreader Tip** (Reorder No. CM-ACCU-WT40)
  - Includes 40 spreader tips per package

Reorder No.	Description
CM-ACCU-SK	Accutrans® Starter Kit
CM-ACCU-IBK	Accutrans® Intro Kit - Brown
CM-ACCU-IKW	Accutrans® Intro Kit - White
CM-ACCU-IKT	Accutrans® Intro Kit - Transparent
CM-ACCU-RB4	Accutrans® Refill - Brown - 4 Cartridge Tubes (75 ml.)
CM-ACCU-RW4	Accutrans® Refill - White - 4 Cartridge Tubes (75 ml.)
CM-ACCU-RT4	Accutrans® Refill - Transparent - 4 Cartridge Tubes (75 ml.)
CM-ACCU-DG	AccuTrans® Dispensing Gun - 1 per pkg
CM-ACCU-MT40	AccuTrans® Mixing Tips - 40 per pkg
CM-ACCU-WT40	AccuTrans® Wide Spreader Tip - 40 per pkg

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# CASTING PREPARATION AND FINISHING




## Wax Hardener for Snow Impressions

Taking a cast impression in snow always involves the risk of damaging the impression with your casting material. Impressions in powdery snow can distort or crumble during the pouring process and the exothermic reactions of casting agents can cause melting.

Our Wax Hardener for Snow Impressions is formulated to prime, seal, and protect delicate impressions before and during the application of a casting material. Use it to set the impression before casting, help protect against melting, and seal out excess water that might dilute your casting mix. Simply spray a few coats of wax on the impression, let it harden, then cast the impression following your normal procedures.




Reorder No.	Description	Price Per Unit
LC-WH-6	 Wax Hardener for Snow Impressions - 6.56 oz.	\$17.50



## Tire and Footprint Casting Release Spray

Our 9 oz. aerosol can of Tire and Footprint Casting Release Spray is used to aid in the separation of any casting materials from the impression.

Reorder No.	Description	Price Per Unit
LC-CRS-9	 Tire and Footprint Casting Release Spray - 9 oz.	\$11.95

## Acrylic Sand and Dirt Hardener

Our Acrylic Sand and Dirt Hardener is a fast-drying, clear acrylic spray created to stabilize footprints and tire tracks found in sand and dirt. TRITECHFORENSICS' Acrylic Sand and Dirt Hardener can be used with plaster, dental stone, and silicone rubber casting material. Once dried, the hardener helps prevent the distortion of the impression from the weight of the casting material. It is provided in an 11.5 oz. aerosol can.

Reorder No.	Description	Price Per Unit
LC-SDH-11	 Acrylic Sand and Dirt Hardener - 11.5 oz.	\$13.95





## Dust, Sand, and Dirt Hardener Kit

Our Dust, Sand, and Dirt Hardener Kit contains all the necessary components for preparing a footprint or tire track for casting with plaster, dental stone, or silicone rubber casting materials. This product helps prevent the impression from deforming due to the weight of the casting material. Kit components are also offered separately.

### CK-DSDH

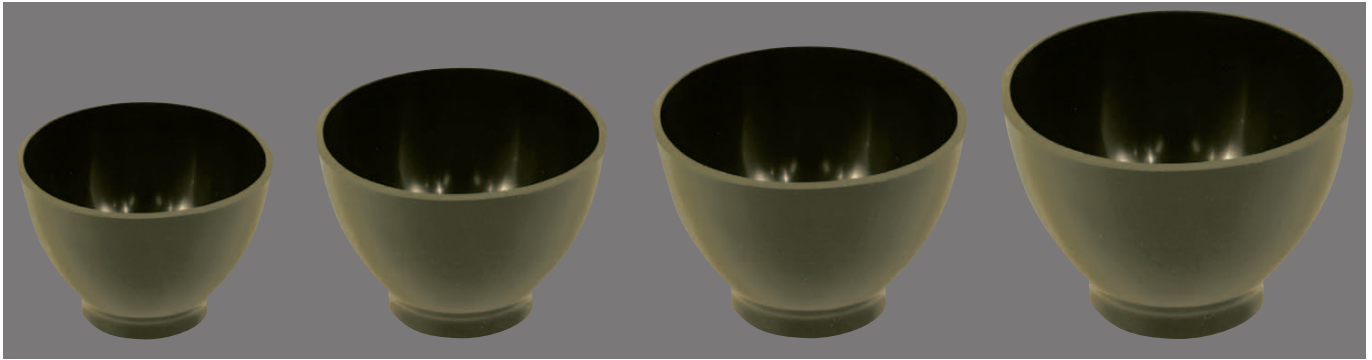
- 1 ea. 64 oz. of Hardener Solution
- 1 ea. 8 oz. Hardener Solution Spray Bottle
- 1 ea. 8 oz. Pump Head Cleaning Solution

Reorder No.	Description	Price Per Unit
CK-DSDH	 Dust, Sand, & Dirt Hardener Kit	\$35.50
LC-DSDH-64	 Dust, Sand, & Dirt Hardener Solution - 64 oz.	\$26.95
LC-A-8	 Pump Head Cleaning Solution - 8 oz.	\$9.95





## CASTING ACCESSORIES



### Flexible Mixing Bowls

These flexible, chemical-resistant, neoprene rubber Mixing Bowls are perfect for mixing plaster, dental stone, and silicone casting materials.

After use, just bend the cup and leftover plaster and dental stone will simply pop off. Remaining silicone can easily be peeled off after the silicone cures.

Reorder No.	Description	Price Per Unit
BOWL-S	Small Flexible Mixing Bowl - 3.25" W x 2.25" H, 150 ml.	\$7.50
BOWL-M	Medium Flexible Mixing Bowl - 4.25" W x 2.75" H, 350 ml.	\$9.50
BOWL-L	Large Flexible Mixing Bowl - 4.75" W x 3.60" H, 600 ml.	\$12.50
BOWL-XL	X-Large Flexible Mixing Bowl - 5.00" W x 4.25" H, 850 ml.	\$14.50

### Casting Material Mixing Bag

These 13" W x 18" H, 4 mil. Ziplock Bags provide a clean and simple way to mix water with whatever casting material you prefer. Simply add the appropriate amount of plaster or dental stone and water to the bag, seal the bag, then shake the contents until you have a uniform mixture of casting material.

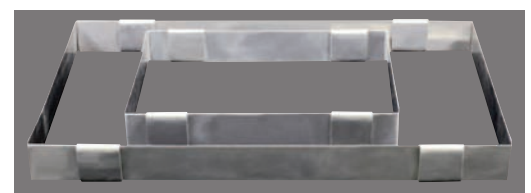
Our empty plastic Water Containers allow you to carry a ready source of clean water for use in mixing casting material.

Reorder No.	Description	Price Per Pkg
ZIP13X18/4	Casting Material Mixing Bag - 100/pkg	\$53.90
JUG64OZ	Water Container - 64 oz. (empty)	\$3.95



### Casting Frames

Our .040" thick, adjustable aluminum Casting Frames are used to restrict the flow and control the depth of plaster, dental stone, or silicone casting material when making casts at crime scenes.



Reorder No.	Description	Price Per Unit
FRAME-F	Casting Frame - Footprint - 12" to 20" L x 8.5" W x 1.75" H	\$17.50
FRAME-T	Casting Frame - Tire Print - 20.25" to 24" L x 12" W x 1.75" H	\$19.50

Available from : **SSPA +612 4645 7600 www.sspa.net.au**



## Basic Liquid Silicone Casting Kit

Our Basic Liquid Silicone Casting Kit contains all the necessary components for making extremely detailed castings of impressions of tool and jimmy marks found on door jams, window sills, etc., and lifting dusted latent prints from almost any textured or irregularly shaped surfaces.

### CK-BSC

KIT COMPONENTS

- 1 ea. Copolymer Carrying Case, 12" L x 7.25" W x 5.5" H
- 1 ea. 2 lbs. Silicone Casting Rubber
- 1 ea. 3.2 oz. Silicone Catalyst
- 1 ea. 3 ml. Silicone Accelerant Solution
- 1 ea. Flexible Mixing Bowl (L)
- 1 ea. 8 oz. Casting Dams Molding Clay
- 1 ea. 9 oz. Casting Release Spray Aerosol
- 1 ea. Mixing Spatula
- 1 ea. Kit Instruction Sheet



Reorder No. Description

CK-BSC **A** Basic Liquid Silicone Casting Kit

Price Per Unit

\$129.00

## Basic Tire and Footprint Plaster Casting Kit

Our Basic Tire and Footprint Plaster Casting Kit has a copolymer carrying case and contains components for making plaster casts of foot and tire impressions found in sand, mud, and dirt.

### CK-BPC

KIT COMPONENTS

- 1 ea. Copolymer Carrying Case, 19" L x 11.5" W x 10.5" H
- 1 ea. 9 lbs. Plaster Casting Material
- 1 ea. 64 oz. Dust, Sand, and Dirt Hardener Solution
- 1 ea. 8 oz. Hardener Solution Spray Bottle
- 1 ea. 8 oz. Pump Head Cleaning Solution
- 1 ea. Flexible Mixing Bowl (XL)
- 1 ea. 8 oz. Casting Dams Molding Clay
- 1 ea. 64 oz. Water Container (empty)
- 1 ea. 9 oz. Casting Release Spray Aerosol
- 1 ea. Cast Cleaning Brush
- 1 ea. Mixing Spatula
- 10 ea. 3" x 5" Wire Cast Reinforcement Mesh
- 1 ea. Footprint Casting Frame
- 1 ea. Pipette
- 3 ea. Plastic Trowels (S, M, and L)
- 1 ea. Kit Instruction Sheet



Reorder No. Description

CK-BPC **H** Basic Tire and Footprint Plaster Casting Kit

Price Per Unit

\$182.00

## Advanced Tire and Footprint Plaster Casting Kit

Our Advanced Tire and Footprint Plaster Casting Kit contains all the necessary components for making detailed plaster reproductions of impressions found in sand, mud, and dirt. It also includes Snow Impression Wax Hardener for making impressions in snow, four mixing bowls, and a tape measure, along with items to properly mark the casts as collected evidence.


### CK-APC

#### KIT COMPONENTS

- |   |  |
|---|--|
| 1 ea. Copolymer Carrying Case (19" L x 11.5" W x 10.5" H) |  |
| 1 ea. 9 lbs. Plaster Casting Material                     |  |
| 1 ea. 64 oz. Dust, Sand, and Dirt Hardener Solution       |  |
| 1 ea. 8 oz. Hardener Solution Spray Bottle (empty)        |  |
| 1 ea. 8 oz. Pump Head Cleaning Solution                   |  |
| 1 ea. 6.56 oz. Snow Impression Wax Hardener Aerosol       |  |
| 1 ea. 11.5 oz. Acrylic Sand and Dirt Hardener Aerosol     |  |
| 4 ea. Flexible Mixing Bowls (S, M, L, and XL)             |  |
| 1 ea. 8 oz. Casting Dams Molding Clay                     |  |
| 1 ea. 64 oz. Water Container (empty)                      |  |
| 1 ea. 9 oz. Casting Release Spray Aerosol                 |  |
| 1 ea. Cast Cleaning Brush                                 |  |
| 1 ea. Plastic Mixing Spatula                              |  |
| 10 ea. 3" x 5" Wire Cast Reinforcement Mesh               |  |
| 1 ea. 16' Tape Measure                                    |  |
| 1 ea. Footprint Casting Frame                             |  |
| 25 ea. Evidence Tags with ties                            |  |
| 1 ea. Evidence Marking Crayon, black                      |  |
| 1 ea. Pipette   |  |
| 3 ea. Plastic Trowels (S, M, and L)                       |  |
| 1 ea. Kit Instruction Sheet                               |  |

Reorder No. Description

Price Per Unit

CK-APC  Advanced Tire and Footprint Plaster Casting Kit

\$254.00

## Advanced Tire and Footprint Dental Stone Casting Kit


Our Advanced Tire and Footprint Dental Stone Casting Kit contains all the necessary components for making detailed, dental stone reproductions of impressions found in sand, mud, dirt, and snow, along with items to properly mark the casts as collected evidence. The Dental Stone Casting Material provides you with a casting of unbelievable strength — so strong that the wire cast reinforcement mesh used in our Advanced Tire and Footprint Plaster Casting Kits is not required.

### CK-ADSC

#### KIT COMPONENTS

- |   |  |
|---|--|
| 1 ea. Copolymer Carrying Case (19" L x 11.5" W x 10.5" H) |  |
| 1 ea. 9 lbs. Dental Stone Casting Material                |  |
| 1 ea. 64 oz. Dust, Sand, and Dirt Hardener Solution       |  |
| 1 ea. 8 oz. Hardener Solution Spray Bottle (empty)        |  |
| 1 ea. 8 oz. Pump Head Cleaning Solution                   |  |
| 1 ea. 6.56 oz. Snow Impression Wax Hardener Aerosol       |  |
| 1 ea. 11.5 oz. Acrylic Sand and Dirt Hardener Aerosol     |  |
| 4 ea. Flexible Mixing Bowls (S, M, L, and XL)             |  |
| 1 ea. 8 oz. Casting Dams Molding Clay                     |  |
| 1 ea. 64 oz. Water Container (empty)                      |  |
| 1 ea. 9 oz. Casting Release Spray Aerosol                 |  |
| 1 ea. Cast Cleaning Brush                                 |  |
| 1 ea. Plastic Mixing Spatula                              |  |
| 1 ea. 16' Tape Measure                                    |  |
| 1 ea. Footprint Casting Frame                             |  |
| 25 ea. Evidence Tags with ties                            |  |
| 1 ea. Evidence Marking Crayon, black                      |  |
| 1 ea. Pipette   |  |
| 3 ea. Plastic Trowels (S, M, and L)                       |  |
| 1 ea. Kit Instruction Sheet                               |  |

Reorder No. Description

CK-ADSC  Advanced Tire and Footprint Dental Stone Casting Kit



## Advanced Tire and Footprint Liquid Silicone Casting Kit

This kit contains all the necessary components for preparing silicone cast impressions found in sand, mud, dirt, and snow. It contains the majority of components used in our Advanced Tire and Footprint Plaster Casting Kit in addition to liquid silicone rubber. The use of silicone provides minute details of the impression and eliminates the possibility of breakage of the casting in transit to the laboratory. This kit also includes items required to mark the casts as collected evidence.


### CK-ASC

KIT COMPONENTS

- 1 ea. Copolymer Carrying Case (19" L x 11.5" W x 10.5" H)
- 1 ea. 8 lbs. Silicone Casting Rubber
- 1 ea. 12.8 oz. Silicone Catalyst
- 1 ea. 3 ml. Silicone Accelerant Solution
- 1 ea. 64 oz. Dust, Sand, and Dirt Hardener Solution
- 1 ea. 8 oz. Hardener Solution Spray Bottle (empty)
- 1 ea. 8 oz. Pump Head Cleaning Solution
- 1 ea. 6.56 oz. Snow Impression Wax Hardener Aerosol
- 1 ea. 11.5 oz. Acrylic Sand and Dirt Hardener Aerosol
- 4 ea. Flexible Mixing Bowls (S, M, L, and XL)
- 1 ea. 8 oz. Casting Dams Molding Clay
- 1 ea. 9 oz. Casting Release Spray Aerosol
- 1 ea. Cast Cleaning Brush



- 1 ea. Plastic Mixing Spatula
- 1 ea. 16' Tape Measure
- 1 ea. Footprint Casting Frame
- 25 ea. Evidence Tags with ties
- 1 ea. Evidence Marking Crayon, black
- 1 ea. Pipette
- 3 ea. Plastic Trowels (S, M, and L)
- 1 ea. Kit Instruction Sheet

Reorder No.	Description	Price Per Unit
CK-ASC	 Advanced Tire and Footprint Liquid Silicone Casting Kit	\$423.00

### Evidence Casting Tips

- Impressions in loose soil can be damaged by the pouring process. Be sure to spray a fixative such as TRITECHFORENSICS's Acrylic Sand and Dirt Hardener (page 223) to help "fix" the impression. Make sure not to spray too much or too closely to the impression. The fixative should be applied very carefully. All impressions are fragile and should be treated with great care.
- Cleaning the cast is usually not a recommended procedure. Only the impression examiner should do this. They can decide what is the best method to use for cleaning without damaging the impression.
- Never rush the process. The exterior may appear ready whereas an interior portion may not be. Take your time.
- Do not mix the dental stone too thin. Mixing it too thin will result in a weak cast. Mixing the dental stone too thick will also result in a poor cast.
- If possible, pour the casting material into an area that does not contain detail. Pouring the casting material over any details can damage the impression whether you used an acrylic hardener or not.
- Debris such as roots or leaves extending out of the impression should be left in place. Removing debris could damage any significant detail.

