

# Ash Gray Powder

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# Ash Gray Powder

## 1 INTRODUCTION/SCOPE

Ash Gray Powder is used by FBI Laboratory Friction Ridge Discipline personnel to develop latent prints on adhesive surfaces.

## 2 STANDARDS AND CONTROLS

See *Processing Overview* ([FRD-300](#))

## 3 LIMITATIONS

None

## 4 EQUIPMENT

- Applicator(s)
- Ash Gray Powder
- Liqui-Nox<sup>®</sup>
- Photo-Flo 200 Solution
- Photo-Flo 600 Solution
- Water

## 5 PROCEDURES

### 5.1 Solution Preparation

Personnel will prepare stock and working solutions as follows:

#### 5.1.1 Ash Gray Powder Working Solution with Photo-Flo

- A. Place Ash Gray Powder in suitable container.
- B. Add Photo-Flo 200 Solution or Photo-Flo 600 Solution and stir until the consistency of thin paint is achieved.

#### 5.1.2 Ash Gray Powder with Liqui-Nox<sup>®</sup>

##### 5.1.2.1 *Liqui-Nox<sup>®</sup> stock solution*

- A. Combine Liqui-Nox<sup>®</sup> and water in equal amounts and mix.

##### 5.1.2.2 *Ash Gray Powder working solution*

- A. Place Ash Gray Powder in suitable container.
- B. Add Liqui-Nox<sup>®</sup> stock solution and stir until a consistency between paint and thin paint is achieved
  1. Note: solution will be frothy.

## 5.2 Application

- A. Personnel will complete the following steps in order:
  - 1. Apply Ash Gray Powder working solution to adhesive surface.
  - 2. Let item sit for a minimum of 30 seconds.
  - 3. Rinse with a slow stream of water.
  - 4. Allow to dry.
- B. Solution may be reapplied as needed using steps one through four.
  - 1. Personnel must be cautious of background overdevelopment.
- C. Capture appropriate friction ridge detail as applicable (digitally or photographically).

## 5.3 Storage

- A. Liqui-Nox<sup>®</sup> stock solution may be stored in any type of laboratory accepted receptacle.
- B. Ash Gray Powder working solution is not stored and is prepared as needed.

## 5.4 Shelf Life

- A. Liqui-Nox<sup>®</sup> stock solution has an indefinite shelf life provided the reagent checks are satisfactory.
- B. Ash Gray Powder working solution does not have a shelf life and is prepared as needed.

## 6 SAFETY

See [FBI Laboratory Safety Manual](#) for appropriate information.

## 7 REVISION HISTORY

Revision	Issued	Changes
02	07/15/2021	Replace Latent Print Units with Friction Ridge Discipline. Minor wording changes. Streamline equipment list. Re-organization and re-numbering of sections. Section 3.1 separated into Section 3.1.1 and Section 3.1.2 and added reapplication information. Section 4, added Preamble reference.
03	06/15/2022	<a href="#">Section 4</a> – Equipment updated Format updated.