

# 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®
- Photo-Flo 600 solution
- Water

## 5 PROCEDURES

### 5.1 Mixture Preparation

Personnel will prepare stock and working mixtures as follows:

#### 5.1.1 Ash Gray Powder working suspension with Photo-Flo 600 solution

- A. Combine:
  - Ash Gray Powder
  - Photo-Flo 600 solution
- B. Mix until the consistency of thin paint is achieved.

#### 5.1.2 Ash Gray Powder with Liqui-Nox®

##### 5.1.2.1 Liqui-Nox® stock solution

- A. Combine:
  - Liqui-Nox® - 1 part
  - Water - 1 part
- B. Mix.

##### 5.1.2.2 Ash Gray Powder working suspension

- A. Combine:
  - Ash Gray Powder
  - Liqui-Nox® stock solution
- B. Mix until a consistency between paint and thin paint is achieved.
  1. Note: suspension will appear frothy.

## 5.2 Application

Personnel will complete the following steps in order:

- A. Apply Ash Gray Powder working suspension to the adhesive surface.
  - 1. Leave suspension on the adhesive surface for a minimum of 30 seconds.
  - 2. Rinse with a slow stream of water.
  - 3. Allow the item to dry.
- B. Suspension may be reapplied as needed using steps one through three.
  - 1. Personnel must be cautious of background overdevelopment.
- C. Preserve appropriate friction ridge detail as applicable (e.g., digitally).

## 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 suspension 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 suspension 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
03	06/15/2022	Section 4 – Equipment updated Format updated.
04	08/01/2024	Photo-Flo 200 removed from document “Solution”, “mixture”, or “suspension” applied as applicable to the situation. Section 5.1.2.1 – amounts clarified