



## **STANDARD FLASH, CONCUSSION, CONCUSSION XL, SUPER SPARKLE SILVER, SUPER SPARKLE GOLD**

### **INSTRUCTIONS FOR USE**

#### **WARNING! Not for consumer use.**

RES Specialty Pyrotechnics Inc. products are for professional use only by licensed operators familiar with the use of these products. User assumes all liability. User is responsible for use, storage and transportation in compliance with all local, state and federal laws. Misuse may result in injury and damage to property. Refer to our [Safety Guidelines](#) sheet for further information.

#### **DISCLAIMER**

RES Specialty Pyrotechnics Inc. makes no guarantee or warranty. Our products are sold under the condition that the user will evaluate them to determine suitability for their intended use.

#### **Device Descriptions:**

**Two Component powders** (Binaries) are pre-measured Theatrical Flash powders designed to be mixed and consumed on site. **The components are not explosive until mixed.**

**Standard Flash** is designed to make a bright flash of light and smoke with little noise when properly used in a standard flash pot. **This flash is designed for a steel fixture of 3.5 inch bore with 0.25 inch sidewall and 3 inch height.**

**Concussion Flash** is designed to make a loud report with little visual effect when properly use in a concussion mortar. **This flash is designed for standard steel concussion mortars with a 1 inch bore and 0.5 inch sidewall.**

**Concussion Flash XL** is designed to make a louder report and reduced odor. **This flash must be used in steel concussion mortars with a 1 inch bore and minimum 1 inch sidewall thickness.**

**Super Sparkle, Silver or Gold** is designed to produce a bright flash of light and noise with a plume of silver or gold sparks. **This flash is designed for use in a steel fixture of 3.5 inch bore, 0.25 inch sidewall and 6 inch height.**

**Binary effects other than concussion effects must be separated from the audience and flammable objects by a minimum distance of 15 feet.**

**Concussion effects must be separated by a minimum of 25 feet from the audience. All personnel within 25 feet of concussion effects must have hearing protection.**

**Binary effects must have an overhead clearance of at least 1.5 times the effect height. Example: A sparkle pot with an effect height of 20 feet must have at least a 30 foot overhead clearance.**

**Refer also to NFPA 1126 for additional guidelines.**

Always test fire a Flash powder device in a safe area, preferably outdoors, to become familiar with the performance of the device and to determine if the device can be used safely.

**CAUTION! Do not disassemble or modify. Accidental ignition, fire or injury may result!**

**Always wear safety glasses when handling pyrotechnics!**

**Do not remove binaries from plastic bag until just before use. The desiccant in the sealed bag prevents moisture from degrading the product.**

#### **MIX POWDER**

- 1) Remove cap from bottle A and bottle B of the same type of Flash powder.
- 2) Pour the contents of bottle A (small bottle) into bottle B (large bottle).
- 3) Replace cap on B bottle and mix contents by gently inverting bottle back and forth for 30 to 60 seconds.

**CAUTION – inadequately mixed powders will not perform properly and will not produce predictable or reproducible effects. Possible personal injury or fires may result.**

#### **LOAD AND TEST DEVICE**

- 1) Disable firing system.
- 2) Using bottle cap as a measure, place desired amount of flash powder into fixture.
- 3) Install electric match in device.
- 4) Position device so it can function safely. Check separation distances from people and flammable objects. Ensure operator can observe device where it is placed.
- 5) Test device according to firing system manufacturer's instructions.
- 6) Disable firing system.

#### **FIRE DEVICE**

- 1) Confirm that device can be fired safely.
- 2) Confirm operator can observe device being fired.
- 3) Enable firing system.
- 4) Fire according to firing system manufacturer's instructions.
- 5) Disable firing system after firing device.

Additional information and guidelines for the use of proximate pyrotechnics can be found in [NFPA 1126: Standard for the use of Pyrotechnics before a Proximate Audience](#).

RES Specialty Pyrotechnics Inc. is available to answer any questions you may have concerning our products. Please call us Monday through Friday, 8AM until 4PM at 952-873-3113. You may also e-mail us at: [info@respyro.com](mailto:info@respyro.com).