



MASTER FLAME

SPECIFICATIONS & DIRECTIONS

Thank you for choosing Master Flame!

To get the most out of your purchase, please carefully read the specification sheet in its entirety before applying.



ASTM E-84



NFPA 701



CALIFORNIA
TITLE 19

► INTRODUCTION

Master Flame is an environmentally friendly Class “A” Flame Retardant intended for use on woods, fabrics, and other absorbent materials. When properly applied, Master Flame creates a thermal insulation barrier that prevents dangerous flames from spreading and inhibits the development of toxic smoke. **NOTE:** Master Flame is *not* compatible with waterproof materials or polymer materials as Master Flame is not able to penetrate the cellular structure.

► TECHNICAL INFORMATION

Master Flame Class ‘A’ Flame Retardant was tested in accordance with **NFPA 701**, **ASTM E84**, and **UL 723** for flame spread and smoke development value by SGS US, in addition to **California Title 19**. Based on the reported results and cited Code Classification System, Master Flame has been assigned a **Class “A” Rating**.

FLAME RESISTANCE: 30 mins with 1 application, 1hr with 2 applications. Each application requires 24hr dry.

TEST SPECIMEN	MASTER FLAME	RATING CLASSIFICATION
Flame Spread Index	15	25 or less
Smoke Development Value	25	450 or less

► COMPATIBILITY TEST

Before full application of Master Flame, a small-scale test should be performed to evaluate materials for compatibility. Begin by applying Master Flame to a small sample of the desired material and let dry for 24 hrs. *Heavy application may cause slight residue.* Once the sample is dry, carefully hold the material vertically and apply a small flame (butane lighter or match) to the treated portion for 10 seconds, and promptly remove the ignition source. If the flame extinguishes within two (2) seconds, you may proceed with the full application.

► APPLICATION DIRECTIONS

Using a spray device, evenly distribute Master Flame on the item or surface being treated, let dry for 24hrs, and repeat as needed. For smaller items, you may fill a container with Master Flame and dip to soak. **NOTE:** Areas of heavy application may cause slight residue. Simply use a damp towel to remove from the surface.

Before applying a second coat, it is important to allow Master Flame to penetrate the item or surface and air-dry for 24hrs. If you are spraying onto a vertical surface where drain off is possible, multiple applications may be necessary. If you are applying paint or sealer in addition to Master Flame, it is important to apply Master Flame *first* and allow 24-48 hours to cure before applying a water-based latex paint or sealer on top. For materials exposed to outdoor elements, a water-based sealer is required for best results.

www.masterflameretardant.com

Master Flame | 1350 W. Washington St, West Chicago IL 60185 | 800.678.9816



▶ APPLICATION DIRECTIONS CONTINUED

When applying to wood products, ensure the surface is unfinished and clean of debris. Master Flame will not work if applied on top of painted or sealed wood.

When applying to fabrics, ensure the item is clean of debris and does not have any impermeable characteristics. Items containing synthetics, nylons, or silk are not compatible with Master Flame.

When applying to other absorbent materials, it is important to verify compatibility by performing a small sample test before full application. Please see “compatibility test” on page 1 for directions.

“HOW MUCH MASTER FLAME DO I NEED?”

The approximate coverage varies by material thickness and density. For best results, it is recommended to treat all sides of material.

QUANTITY	APPROX. COVERAGE
Quart Sprayer	Up to 100 Sq Ft.
1 Gallon	Up to 500 Sq Ft.
4 Gallon Case	Up to 2000 Sq Ft.
5 Gallon Pail	Up to 2500 Sq Ft.
55 Gallon Drum	up to 27,500 Sq Ft.

▶ WHEN TO RE-APPLY

For unfinished woods that are exposed to outdoor elements, it is recommended to re-apply Master Flame every 2-3 months depending on precipitation and humidity. To prevent frequent reapplication, a water based sealer can be applied to the wood after Master Flame has fully dried.

For indoor woods that are not exposed to moisture, reapplication is recommended every 2 years.

For fabrics that encounter high friction such as uniforms or upholstery, it is recommended to reapply every 6 months to 1 year, or when exposed to excessive moisture. When washing fabrics treated with Master Flame, dry clean only as Master Flame is water soluble.

▶ WARRANTY INFORMATION

Neither the seller nor manufacturer shall be liable for any injury, loss, or damage, direct or consequential, arising out of the use or the inability to use the product. Before using, the user shall determine the suitability of the product for their intended use, and the user assumes all risk and liability whatsoever in connection therewith. If the product is tamper-evident, do not use it and contact an authorized Master Flame dealer immediately.

Learn more about
Master Flame:

