

MASTER FLAME

SPECIFICATION SHEET

Master Flame is an environmentally friendly product which can be used on most materials. It forms a thermal insulation barrier that prevents dangerous flames from spreading. Master Flame also inhibits the development of toxic smoke.

- **Helps Prevent Spread of Dangerous Flames • Inhibits Toxic Smoke Development • Discourages Mold Growth & Termites**
- **Helps Preserve Wood • Easy to Apply & Safe to Store • Non-Toxic, Eco-Friendly - NO PBDE's or Toxins**
- **Works with Woods, Fabrics, Paper, & other Absorbent Materials • NFPA 255, 701, & ASTM E84 Tested • Class 'A' Rated**

TECHNICAL INFORMATION

Master Flame Class 'A' Flame Retardant was tested in accordance with NFPA 255 and ASTM E84 Test for flame spread and smoke development value by SGS US Testing Surface burning characteristics of building materials. **Flame Resistance:** 30 mins with 1 application, 1hr with 2 applications. Each application requires 24hr dry. **Does not apply when mixed with paint**

TEST SPECIMEN	MASTER FLAME	RATING CLASSIFICATION
Flame Spread Index	15	0-25
Smoke Development Value	25	0-450

Since Master Flame falls within the rating classification shown above, it is considered an acceptable fire retardant product in accordance with NFPA 255, with a Class 'A' Rating.

TESTING: Prior to full application of Master Flame, a small scale test should be performed to evaluate materials for compatibility. Apply Master Flame to the desired material and let dry for 24 hrs. Heavy application may cause slight residue. When dry, use a sample of the treated material and a small flame (butane lighter or match), hold a piece of the treated material vertically, apply the small flame to the treated portion for 10 seconds, and then remove the ignition source. The flame must self-extinguish within two (2) seconds. If mixing Master Flame 50/50 with a water-based paint or sealer, begin with a small sample of the mix and perform the test described above. Some water-based paints and sealers may not be suitable to mix with Master Flame.

Master Flame is NOT compatible with polymer materials, oil-based paints and sealers, or foam as Master Flame is not able to penetrate the cellular structure.

APPLICATIONS

- Master Flame can be used to treat materials and surfaces such as uniforms, clothing, wood, pre-construction materials, furnishings, carpeting, packing materials, motor home interiors, holiday decorations, and more. It can also be mixed 50/50 with water based paints and sealers (no-gloss paints and sealers only).
- After treating your materials with Master Flame, allow them to cure for 48 hours before applying a water-based latex paint or sealer, unless mixing 50/50.
- On materials exposed to outdoor elements, a water-based sealer is required for best results. As stated before, it is important to test for compatibility prior to full application.
- **RE - APPLICATION:** It is recommended to re-apply Master Flame to fabrics that have been washed or rinsed. For wood and other absorbent materials, it is recommended to re-apply Master Flame once a year unless sealed or mixed with paint.
- **DO NOT** Use Master Flame on water-proofed material.

NOTE: Every situation is different, always check with you fire marshal to ensure Master Flame will meet the standards of your application.

QUANTITY	APPROX. COVERAGE
Quart Sprayer	Up to 100 Sq Ft.
1 Gallon	Up to 500 Sq Ft.
4 Gallon Case	Up to 1900 Sq Ft.
5 Gallon Pail	Up to 2300 Sq Ft.
55 Gallon Drum	up to 22,000 Sq Ft.

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

DIRECTIONS: Evenly distribute Master Flame on the item or surface being treated, let dry, and repeat as needed. In all applications, allow Master Flame to completely penetrate the item or surface and air-dry for 24hrs completely before reapplying. If you are using Master Flame to fire-retard clothing, carpeting and other fabrics, it is recommended that Master Flame be reapplied after washing, as some of the product's effectiveness will be diminished after washing. On materials exposed to outdoor elements, a water-based sealer is required for best results (test sealer on small section of treated material first). If spraying onto a vertical surface where drain off is possible, multiple applications may be necessary. When mixing Master Flame with water-based paint or sealer, mix equal parts of Master Flame and desired solution. When mixing 50/50 with Master Flame, an extra coat will be required for best results.

WARRANTY: Neither 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, user shall determine the suitability of the product for their intended use, and user assumes all risk and liability whatsoever in connection therewith. If product is tamper evident, do not use and contact an authorized Master Flame dealer immediately.