



FLAME CONTROL NO. 111

A Mineral Spirit Base, Flat Alkyd Type

Intumescent Fire Retardant Paint
Fire Hazard Classification, CLASS "A"

DESCRIPTION:

Flame Control No. 111 is a Class "A", flat, black, interior, mineral spirit based, alkyd type, fire retardant paint, manufactured in accordance with Federal Specification TT-P-26C. No. 111 dries quickly to a velvety flat finish, having the appearance of a conventional paint. On contact with flame or excessive heat, the coating decomposes and puffs up (intumesces) forming a thick, dense, spongy foam layer that checks flame spread and retards heat penetration.

RECOMMENDED USES:

For application to all interior combustible surfaces where it is either necessary or desirable to reduce the surface burning characteristics of combustible materials, also, on metal surfaces to retard the penetration of heat.

USED BY:

Schools, Colleges, Nursing Homes, Child Care Centers, Hospitals, Penal Institutions, Apartments, Hotels, Factories, Warehouses, Retail Stores, Restaurants, Utilities, Railroad and other Transportation Companies, Oil and Chemical Installations, Military Installations, and other facilities where a flat black fire retardant coating is required.

USE UNTOPCOATED OR TOPCOATED:

Topcoating is not necessary for most applications, however, on surfaces requiring maximum washability and cleansibility, No. 111 should be topcoated with Flame Control No. 40-40A low-gloss latex Fire Resistant Coating.

PERFORMANCE INFORMATION:

- Class "A" fire rated (See Fire Hazard Classification Section).
- Complies with federal, state, local building and fire code requirements.
- Dries by solvent evaporation to a tough, hard, velvety flat finish.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all current environmental regulations - Photochemically nonreactive according to Rule 102.

CHARACTERISTICS:

Finish Flat, 5 units max. @60°

Color Black

Spreading Rate
Per Coat 180 sq.ft/gal. (4.4 m²L)
 8.9 mils wet, 4.7 mils dry

Solids by Weight 68% ± 2%

Solids by Volume 53% ± 2%

Drying Time @ 77°F (25°C) & 50% R.H.
 To touch 30 min.
 To handle 6-8 hours
 To topcoat 24 hours

Type of Cure Solvent Evaporation

Flash Point
of Liquid Coating 104°F (40°C)
 (Pensky-Martens closed cup)

Reducer/Cleaner Mineral Spirits

Shelf Life 1 year (unopened)

Packaging 1 & 5 gal. containers
 weight/gal. 10.3 ± 0.2 lbs.

Shipping Weight 4 gals. - 44 lbs.
 5 gals. - 53 lbs.

Application Brush, roll, conventional
 and airless spray

PRECAUTIONS:

CAUTION! COMBUSTIBLE! VAPOR HARMFUL. MAY EFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

USE WITH ADEQUATE VENTILATION:

Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close the container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID:

If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention. For skin wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

Read MSDS before opening containers.

KEEP OUT OF REACH OF CHILDREN



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SURFACE PREPARATION:

Surface preparation should be carried out according to good painting practices. All dirt, grease, oil, wax, rust and other foreign matter. Must be removed. All metal surfaces must be primed.

NEW SURFACES:

New wood, fiberboard and other surfaces having uneven or excessive porosity should be sealed with Flame Control No. 3001 Alkyd Primer and allowed to dry a minimum of 16 hours before applying No. 111. New ferrous metal surfaces must be primed. Apply Flame Control No. 3004A Universal Metal Primer. Allow to dry 16 hours or until hard, before applying No. 111.

PREVIOUSLY PAINTED SURFACES:

No. 111 may be applied directly to existing paint that is tightly adherent and in good condition. All glossy surfaces should be dulled with sandpaper. Spot prime where necessary with appropriate primer as shown above, before application of No.111

APPLICATION:

Mix paint thoroughly by boxing or stirring. No. 111 can be applied by brush, roller, airless or conventional heavy duty spray equipment. Apply using a full bodied coat at the recommended coverage rates. To conform with surface burning characteristics established for this paint, dilution of the paint should be compensated with reduced coverage rates. Do not apply when surface or air temperature is below 50°F (10°C).

PAINTED

APPLICATION EQUIPMENT:

Conventional Spray

Air Supply 12 CFM, 50 psi
fluid 15-20 psi
Gun . .Graco 217-800 to 217-816
Type External Mix
Reduction Up to 7%

Airless Spray

Titan 440 Impact (or Equivalent)

Pump
Fluid Pressure. 2250-2700 psi
Manifold Filter 60 Mesh
Gun Filter 60 Mesh
Fluid Hose ¼" diameter
Gun LX-80 II
Tip.017 - .023
Reduction Up to 7%

FIRE HAZARD CLASSIFICATION

Flame Spread Rating. Class "A" when tested in accordance with ASTM E-84 (NFPA 255), the coating obtained the following fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (WHEN APPLIED TO DOUGLAS FIR)	
	Flame Spread	Smoke Developed
SEALER – None BASE COAT – Type 111 applied in one coat at 180 sq. ft./U.S. gal. (4.4 m ² /L) TOP COAT – None	15	30

As we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. We sell the products without warranty or guarantee, and buyers and users assume all responsibility and liability for loss or damage from the handling and use of our products, whether used alone or in combination with other products.