

FLAME CONTROL NO. E-119 2 Hour

A Low VOC Water Base, Flat Latex

V.O.C. Compliant Intumescent Fire Retardant Paint

Fire Hazard Classification, ASTM E-119 - 2 Hours
(Canadian identical equivalent test CAN/ULC S-101)

DESCRIPTION:

Flame Control No. E-119 is a V.O.C. Compliant, interior, low VOC, water base, flat latex, fire retardant paint, designed to increase the fire resistance rating (time rating) of drywall assemblies. It will provide up to a 2 hour fire resistance rating (FRR) on drywall assemblies. It has been tested in accordance with ASTM E-119 test methodology (Canadian identical equivalent test ULC S-101) and has achieved a maximum two hour rating while also successfully passing the hose stream test. This coating dries quickly to a flat finish, having the appearance of a conventional flat latex paint. In the presence of heat or flame the coating puffs up (intumesces) and forms a thick, sponge like cellular foam layer; this foam layer insulates the substrate reducing the penetration of heat, thus increasing the fire endurance and delaying fire penetration.

RECOMMENDED USES:

For application on drywall assemblies where it is either necessary or desirable to increase the fire resistance rating. Deficient assemblies can be boosted to meet requirements, and designs can be modified to reduce the layers of drywall needed to meet space requirements, reduce difficulty in fitting drywall, and cut labour costs and time.

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 fire retardant coatings are required.

USE UNTOPCOATED OR TOPCOATED:

Top coating is not necessary for many applications; however, on surfaces requiring maximum washability and cleansibility, or alternative colour or finish, No. E-119 may be top coated with Flame Control No. 40-40A Latex Fire Resistant Topcoat or similar equivalent good quality latex paint.

PERFORMANCE INFORMATION:

- Up to 2 hour fire rated.
- Helps to make drywall assemblies comply with federal, provincial, local building and fire code requirements.
- Dries by water evaporation to a tough, flexible, matte finish.
- Does not leach (lose fire retardancy) on exposure to high humidity.
- Meets all present VOC and environmental/ecological regulations.

CHARACTERISTICS:

Finish Flat

Color White, Gray, Black

Tinting . . Can be tinted up to 2 fl. oz. of Universal Tint. Check colorant for compatibility.

Spreading

Rate 80 sq. ft./gal. (2 m²/L)
applied in one coat if possible
or two coats at 160 sq. ft / gal.

V.O.C. 38 g/L

Volume Solids 49% ± 2

Weight Solids 66% ± 2

Drying Time @

77°F & 50% RH: . . To touch 30 min.
To handle 1-2 hours
To recoat 2 to 4 hours

Type of Cure Coalescence

Flash Point None

Reducer/Cleaner Water

Shelf Life 24 months (unopened)

Packaging 1 & 5 gal. containers
weight/gal. 12 ± 0.2 lbs.

Shipping weight 4 gals - 52 lbs.
5 gals - 63 lbs.

Application Brush, roller,
airless spray

PRECAUTIONS:

Adequate ventilation must be provided during and after application until the coating has dried. Avoid breathing vapors or spray mist. Close container after use. **DO NOT TAKE INTERNALLY.**

Read MSDS before opening containers.

KEEP OUT OF REACH OF CHILDREN

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.

NEW SURFACES:

New drywall should be sealed/primed with a good quality drywall primer.

PREVIOUSLY PAINTED SURFACES:

No. E-119 may be applied directly to existing paint that is tightly adherent and in good condition. All glossy surfaces should be dulled with sandpaper. Spot priming where necessary should be carried out to ensure proper adhesion and dry film thickness.

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APPLICATION:

Flame Control E-119 2 Hour must be thoroughly mixed before application. Failure to do so will compromise the protective capabilities of Flame Control Flame Control E-119 2 Hour. We recommend mechanical stirring with a high speed drill and a helical drill mixer appropriate for the size container. Contents should be stirred from the bottom up, making sure to scrape the bottom and sides with a paint stick as you go. Contents should be stirred to a creamy consistency with no lumps.

Flame Control E-119 2 Hour is a water based product and slight thinning will not hurt the product. It should be noted that thinning increases the likelihood of not applying the proper film thickness, resulting in decreased fire protection capabilities. It is the sole responsibility of the applicator to ensure the proper film thickness has been applied.

Flame Control E-119 2 Hour should never be mixed with other materials, however tinting using universal paint tint is acceptable.

E-119 is best applied by airless spray to get an even finish, but brush and roller may be used as well for smaller jobs.

Suggested coverage rate is 80 sq. ft./U.S. gallon (2 m²/L). This can be applied in one coat if possible, however for best finish it is best applied in 2 coats at 160 sq. ft./U.S. gallon (4 m²/L) PER COAT.

Do not apply when surface or air temperatures are below 50°F (10°C). Protect from freezing.

APPLICATION EQUIPMENT:

Airless Spray Minimum:

PSI: 3000 PSI or higher

Filter: 30 mesh, removal of filter is recommended from gun and machine

Hose: ¼" diameter airless spray line for the first 50' from pump and ¼" x 6' whip.

Tip: 517-531

GPM: 0.95

For best results, use hose 3/8" diameter airless spray line for the first 50' from pump and ¼" x 6' whip and no filter gun and machine.

Recommended for best results: For all jobs big or small:

Pump: (Graco) Mark 4 or 5 or equivalent

PSI: 3300 / 227

GPM: 1.35

Tip: 517 – 533 or equivalent

Filter: 30 mesh, removal of filter is recommended from gun and machine

Hose: 3.8" diameter airless spray line for the first 50' from pump and ¼" x 6' whip

FIRE HAZARD CLASSIFICATION

Fire Resistance Rating: ASTM E-119 (Canadian identical equivalent test CAN/ULC S-101)

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (Assembly as tested) Fire Resistance Rating
PRIMER – Standard drywall primer BASE COAT – Type E-119 applied at 80 sq. ft./U.S. gal. (2 m ² /L) TOP COAT – None	2 Hours FRR

Flame Spread Rating: Class "A" when tested in accordance with ASTM E-84 (equivalent to CAN/ULC S-102), the coating obtained the following fire hazard classification.

COATING (SYSTEM) DETAILS	CLASSIFICATION OR RATING (Assembly as tested) Flame Spread Smoke Developed	
PRIMER – Standard drywall primer BASE COAT – Type E-119 applied at 80 sq. ft./U.S. gal. (2 m ² /L) TOP COAT – None	10	15

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