



Interam™ Graphite Mat (Ultra GS)

Product Data



1. Product Description

3M™ Interam™ Ultra GS is a graphite based, largely inorganic, flexible, fire resistive, intumescent mat.

It is available in convenient rolls for quick and easy installation. Ultra GS is designed to firestop plastic pipe penetrations in fire-rated walls and floors and floor-ceiling assemblies.

The unique, intumescent property (expands when heated) of this material means that as penetrating items such as plastic pipe are consumed by fire, Ultra GS expands to maintain a tight seal, preventing the spread of fire, deadly smoke, and other by-products of combustion.

Ultra GS is UL classified in firestop systems for plastic pipe. See the current UL Fire Resistance Directory.

Product Features:

- Intumescent: Expands when heated to seal around items consumed by fire.
- Thermal insulator: Intumescent char provides thermal insulation to deter heat transfer of a fire.
- Smoke seal: Retards spread of toxic by-products of combustion when used in conjunction with CP 25WB+ or Moldable Putty+.
- Excellent flexibility: Conformable, cost effective installation.
- Meets performance criteria ASTM E-814 (UL 1479).
- Excellent weatherability:
- Versatile: Easily cut and shaped with common tools..
- Normal Disposal procedures.

2. Applications

3M Interam Ultra GS provides a rapid and cost-effective means of sealing wall and floor penetrations where fire resistance is required.

The 3M Interam Ultra GS is used to seal ccPVC, PVC, CPVC, FRPP, PVDF, ccABS, and ABS pipes penetrating 1 and 2 hour fire rated gypsum wallboard assemblies and up to 3 hour fire rated concrete walls and floors. It may be applied to drain, waste, vent or closed pipe systems. The Ultra GS is used in conjunction with the RC-1 Restricting Collar for firestopping plastic pipe. See current UL Fire Resistance Directory for through-penetration systems.

3. Specifications

A. Product

The penetration seal must be capable of passing ASTM E-814 (ANSI/UL 1479) Standard Method of Fire Tests for Through Penetration Fire Stops up to the desired fire resistance.

B. Engineering/Architectural

All penetrations in fire-rated walls or floors shall be fitted and sealed with 3M Brand Fire Barrier Products in accordance with the manufacturer's installation instructions.

Performance

A. Physical Properties

Color: Gray/Black

B. Roll Size: 1/8" x 2" x 40' (3 mm x 5,08 cm x 12,1 m)

Heat Expansion (Intumescence):

Expansion begins.....410°F (210°C)
Significant expansion.....555°F (290°C)
Free expansion.....25 times (5 min @ 662°F [350°C])

C. Weatherability (Tested to ASTM G23 and G53)

Test Condition	Time	After Exposure
Temperature/Humidity 90°F (32°C)/90%	120 Days	No change in expansion

D. Surface Burning Characteristics (ASTM E-84, UL 723)

Flame spread index	0
Smoke development index	5

Product Use: All statements, technical information and recommendations contained in this document are based on tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose other than those already stated by 3M, and suitable for the user's method of application.

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