

US150 / US110 Fire Barrier Foam

Description

Fire Barrier Foam is a two component flexible product, consisting of separate A and B liquid components which, when mixed, forms a medium-density fire retardant foam. US150 / US110 is designed to seal large openings and multiple penetration areas such as cable bundles, cable trays and metallic pipes. Prior to foaming, the liquid components remain fluid allowing effortless sealing of any size and shape opening. After exposure to 1×10^6 Gy (1×10^8 rad) of neutron or gamma radiation, US150 & US110 will maintain full firestop performance characteristics 50 plus years.

Uses

US150 / US110 Fire Barrier Foam seals single or multiple penetrations through concrete or masonry floor slabs, walls and other fire-rated building partitions and assemblies.

Feature

- Liquid properties conform to any size or shape opening
- Proprietary intumescent properties
- Unparalleled resistance to fire consumption
- Halogen free
- Asbestos free
- Durable and maintenance free

Test

- UL1479 2hr T Rating and F Rating
- ULC S115 2hrs FH Rating
- FM approved
- CNS15814-1
- CNS14514, 3hrs, Class A and B
- GB23864
- ASTM E84
- ASTM E662



Installation guide

Packing Material

Use at least 1 in. thickness of min 15 pcf ceramic fiber board firmly friction fitted into opening as a permanent form and located flush with the bottom surface of floor to prevent fill material leakage.

Sealing

Generous application of sealant (INCA fire barrier silicone sealant INSS2460 or caulk INSS1440), to be applied around the penetrant and the edges of the opening, flush with the bottom surface of the floor to prevent fill material leakage.

Foaming

Min 7 in. thickness of fill material applied within the annulus, flush with top surface of floor. Two parts foam shall be mixed in accordance with the installation instructions provided with the product.

Specification

	US150		US110	
	Part A	Part B	Part A	Part B
Color	black	yellowish	charcoal gray	brown
Packing	14Kg/Pail	6Kg/Pail	12Kg/Pail	6.9Kg/Pail
Mixing ratio (by weight)	A:B=7:3		A:B=7:4	
Foaming time	1 ~ 5 min.		1 ~ 5 min.	
Optimum foaming temp.	20°C ~ 30°C		20°C ~ 30°C	
Time for full cure	24 Hours		24 Hours	
Foam rate	Approx. 2.5 ~ 4 times		Approx. 5 ~ 7 times	
L.O.I.	≥ 32		≥ 32	
Storage temp.	15 ~ 25°C		15 ~ 25°C	
Combustion expansion rate	4 ~ 10 times		2 ~ 5 times	

Applications



No penetration



Metallic pipe



Cable bundle



Cable tray



Busway



Air duct



Multiple penetration



Plastic pipe



Insulated pipe

