

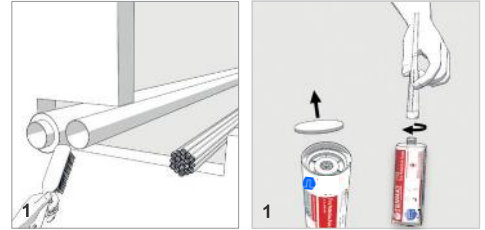


FF360 Fire Protection Foam

The UL listed systems for Fire Protection Foam FF360 and the respective local and federal regulations are authoritative for execution of the through penetration firestop system. If the mixing nozzle is clogged, never use force to press out the material; force can destroy the cartridge or the dispensing gun! Wear suitable protective gloves, safety glasses and protective clothing for the work.

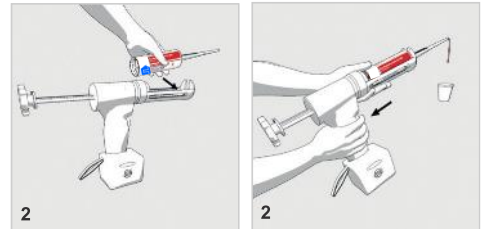
Step 1

- Clean the component opening.
- Cardboard, plastic foil or duct tape can be used as formwork and it can remain on the surface.
- Remove the bottom lid of the cartridge. Hold the cartridge vertically with the tip pointing upward, unscrew the cap and firmly screw on the provided mixing nozzle.



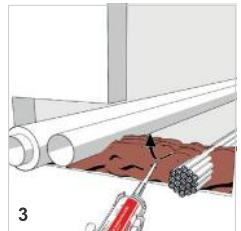
Step 2

- Insert the cartridge into the intended dispensing gun.
- Start pressing out and discard non-uniform initial material.



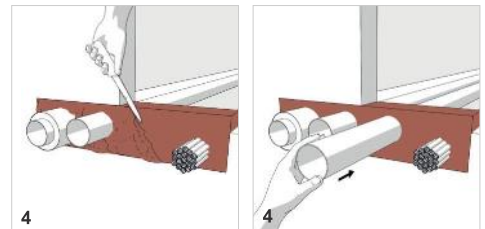
Step 3

- Fill the opening from back to front. Build up the foam from bottom to top, always guide the tip of the mixing nozzle above the foam so that the material does not stick to it or clog it.
- **IMPORTANT!** Forcing the FF360 foam through a clogged mixing nozzle may damage the dispensing gun and/or the cartridge. After a work interruption longer than approximately 30 seconds the foam hardens in the mixing nozzle, which must then be replaced. Prior to changing the mixing nozzle, relieve pressure on the cartridge, and carefully replace the mixing nozzle.



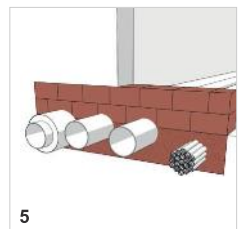
Step 4

- After approximately 2 minutes, excess foam can be cut off with a suitable knife in compliance with the necessary protective measures and safety regulations.
- Cables or pipes that will be installed retroactively can be routed through the existing foam. Refill gaps due to removed cables or pipes with Fire Protection Foam FF360.



Step 5

- Large free areas can be filled with Fire Protection Block FF260. (See Installation Instructions for Fire Protection Block FF260)



IMPORTANT NOTICE: Forcing the FF360 foam through a clogged mixing nozzle may damage the dispensing gun and/or the cartridge. If a pause of more than 30 seconds is needed, simply release the trigger of the dispensing gun. However, the mixing nozzle will have to be replaced before continuing application because the FF360 foam will have

**PRODUCT FOR INDUSTRIAL OR PROFESSIONAL USE ONLY.
KEEP AWAY FROM CHILDREN.**

THIS INSTALLATION GUIDE IS INTENDED ONLY TO HIGHLIGHT GENERAL STEPS OR METHODS FOR THE APPLICATION OF FIRE PROTECTION FOAM FF360 AND IS NOT INTENDED TO DESCRIBE ALL DETAILS AND REQUIREMENTS. SYSTEM SPECIFICATIONS SHOULD COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. INSTALLER SHOULD CONFIRM THAT THE FIELD CONDITIONS (SUCH AS OPENING SIZE, PIPE SIZE AND MATERIAL, INSULATION TYPE AND THICKNESS, AND ANNULAR SPACE) COMPLY WITH THE SYSTEM SPECIFICATIONS.



FF360 Fire Protection Foam

The UL listed systems for Fire Protection Foam FF360 and the respective local and federal regulations are authoritative for execution of the through penetration firestop system. If the mixing nozzle is clogged, never use force to press out the material; force can destroy the cartridge or the dispensing gun! Wear suitable protective gloves, safety glasses and protective clothing for the work.

Retroactive Installation of Cables and Pipes

- New penetrating elements can be routed through the existing through penetration firestop system. Use a suitable cutting / drilling tool to make sufficiently large openings in the penetration seal. (In compliance with the necessary protective measures and safety regulations).
- Cavities or gaps around the newly added penetrating elements or due to removed cables or pipes must be refilled with Fire Protection Foam FF360 or Fire Protection Blocks FF260.
- The newly added penetrating elements must satisfy all requirements of the UL listed systems.

Tips

- We recommend the knife with the wide or narrow serrated blade for optimal cutting.
- Material that has been cut can be reused in other openings. Just apply new Fire Protection Foam FF360 around these.
- Installation of penetration seals in floors by a single person is possible.
- The through penetration firestop system can be painted over with off-the-shelf dispersion paint.
- If a pause of less than 30 seconds is needed, fully pull back the dispensing gun's plunger rod, remove the FF360 cartridge, and set it in an upright position. To resume application, insert cartridge and manually push in the plunger rod until it is in contact with the cartridge. Immediately start dispensing and discard non-uniform material.

Product Data Fire Protection Foam FF360

Work Interruption *:	Approx. 30 seconds
Foam Yield *:	Up to 116 cubic inches (1,9 liters)
Content:	12.85 fl. oz. Cartridge (380ml)
Cutability:	After approx. 90seconds (at 72°F / 22°C material temperature and ambient temperature)
Transport / Storage:	41 °F – 86 °F / 5 °C – 30 °C (dry in original containers)
Application Temperature:	59 °F – 86 °F / 15 °C – 30 °C, optimal: 68 °F – 77 °F / 20 °C – 25 °C
Environmental Conditions:	Use in dry rooms and indoors with temperatures above 32 °F / 0 °C (Exposure to the weather is applicable when an additional (silicone) coating is used)

* Foam yield and max. possible work interruption depend on the material temperature and ambient temperature.

DANGER: Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to respiratory system through prolonged or repeated exposure.

PRECAUTIONS:

Obtain special instructions before use. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Wear protective gloves/ protective clothing/eye protection/face protection. Do not eat, drink, or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. Store locked up in a well-ventilated place. Keep container tightly closed. Dispose of contents/container to hazardous or special waste collection point in accordance with regional and national regulations.

RESPONSE

If on Skin

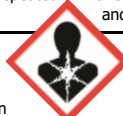
Wash with plenty of water/soap. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse.

If Inhaled

Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center/doctor.

If in Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



WARNING: This product is designed to be used by professional contractors familiar with the applicable federal, state, and local regulations and specifications concerning the installation of firestopping systems. Prior to handling this product, carefully read the safety data sheet and the following important health and safety warnings.

PRODUCT FOR INDUSTRIAL OR PROFESSIONAL USE ONLY.

KEEP AWAY FROM CHILDREN.

ALWAYS WEAR SUITABLE PROTECTIVE CLOTHING, PROTECTIVE GLOVES AND EYE PROTECTION. WHEN CUTTING THIS PRODUCT TO APPROPRIATE SIZE OR CREATING NEW OPENINGS FOR RETROACTIVE INSTALLATION, USER MAY CUT OR OTHERWISE HURT HIMSELF OR HERSELF.

THEREFORE, USE EXTREME CAUTION WHEN CUTTING OR OTHERWISE MECHANICALLY PROCESSING THIS PRODUCT. IN ADDITION, WHEN CUTTING OR OTHERWISE MECHANICALLY PROCESSING THIS PRODUCT, SMALL PARTICLES MAY BE CREATED THAT MAY CAUSE IRRITATION TO THE EYES AND RESPIRATORY SYSTEM. THEREFORE, BE EXTREMELY CAREFUL TO AVOID DIRECT CONTACT, ESPECIALLY IF WORKING OVERHEAD. IF PRODUCT COMES INTO CONTACT WITH EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IF EYE IRRITATION PERSISTS: GET MEDICAL ATTENTION.

THE INGREDIENTS IN THIS PRODUCT MAY FORM DANGEROUS GASES AND VAPORS IN CASE OF FIRE. THESE INCLUDE AMMONIA, PHOSPHOROUS OXIDE, CARBON MONOXIDE AND CARBON DIOXIDE. SEEK MEDICAL ATTENTION IF EXPOSED.