Technical Documentation

SEAL-IT® 472 PU-FIRE FOAM

Product

Seal-it® 472 PU-FIRE FOAM is a durable flame and fire-retardant 1k insulation and installation foam, specially developed for flame and fire-retardant joint seals between various building components, up to a maximum joint depth of 40 mm, and that moisture-cures into a durable foam mass.

Applications

- Particularly suitable for flame and fire-retardant sealing, insulation and filling of connecting joints, seams, cracks and holes in interior and exterior façades, cavity walls, partitions and ceiling, roof and floor components.
- Seal, insulate and fill pipe and line penetrations through ceilings, roofs, floors and interior and exterior walls.
- Seal, insulate and fill adjustment and installation spaces around prefab components, sections and door and window frames.
- Adhere, install, insulate and seal between different insulation panels/boards and panel materials in the construction of roofs, façades, floors and interior and exterior walls.
- Seal, insulate and fill connections in ridges, dormers, chimneys, air exhaust ducts and bay windows.
- Fill, seal and insulate hollow spaces/holes in roofs, floors, façades, ceilings and interior and exterior walls.

Properties

- Flame and fire-retardant quality, tested according to EN 1366-3 & EN 1366-4 B1.
- Adheres excellently to many materials, such as stone, concrete, stucco, masonry, gypsum, wood, metal and various plastics, such as Styropor, hard PU foam, polyester and hard PVC.
- Excellent acoustic and insulating properties.
- Very low emission: certified VOC emission class A+.
- High output, approx. 45 litres at free expansion.
- Fast-curing, fine-celled and easy-to-cut polyurethane foam.
- Foams during the curing process, high filling capacity.
- Lasting resistance to weather, water, moisture and ageing; does nossssst rot.
- Simple, easy and clean application with the Seal-it® PU gun.
- Excellent resistance to hot and cold temperatures, water and many chemicals.

Standard product line

Colour	12 x 750ml canister
Red	SI-472-0000-750

Other packaging on request.

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Technical product data

Base			POLYURETHANE
Propellent gas			(H)CFC-free
Type			Flexible
Output	Litres	Free expansion	45
Density	kg/m³		20-25
Adhesive-free	Min.	+23°C, 50% RH	12-16
Cuttable	Min.	+23°C, 50% RH	20-40
Fully loadable	Hours	+23°C, 50% RH	24
Fire performance		DIN 1366-4	B1
Thermal conductivity	W/m²K		0.034
Compressive strength	N/cm²	10% DIN 53421	2.5
Tensile strength	N/cm²	BS5241	8
Noise reduction	dB	Residual value	58

Shelf life

In unopened original packaging, stored in a cool dry place with canister upright, between +5°C and +25°C, the product will last up to 12 months after the production date.

Application conditions

- Application temperature (ambient and surface) between +5°C and +40°C.
- On compatible, stable, clean, uncontaminated and grease-free surfaces.
- Use a suitable brush to remove any loose particles from the surface.
- Degrease the surface properly using Seal-it® 510 CLEANER.
- Give the canister approx. 20 good shakes before use.
- If necessary, use a plant sprayer to lightly moisten the surface in advance.
- Cut off fully cured excess Seal-it® 472 PU-FIRE FOAM with a knife and/or trowel.
- Before use, grease the threading of the gun adapter with Vaseline, PTFE and/or silicone spray, to prevent the canister sticking to the PU gun.
- After securing the canister in the gun, the spray speed and output volume are adjustable using the setscrew on the back of the gun for efficient/economic use.
- When not in use, tighten the setscrew on the back of the PU gun until it is closed so the PU gun can no longer be activated.
- Always leave the canister in the PU gun until it is completely empty.
- Remove the empty canister by holding in the trigger while unscrewing it in order to expel any remaining propellent gas.
- Next, reload the PU gun with a full canister and/or clean the PU gun thoroughly using Seal-it® 450 PUR CLEANER.
- If the PU gun is not working properly, put Seal-it® 450 PUR CLEANER on the PU gun. Spray through several times and let set well for approx. 15 min. Spray through again and then remove the Seal-it® 450 PUR CLEANER canister.

Temperature resistance

- -50°C to +90°C continuous
- -65°C to +130°C intermittent

Cleaning

Use Seal-it® 450 PUR CLEANER to remove fresh/uncured spilled Seal-it® 472 PU-FIRE FOAM immediately from surfaces and tools. Clean hands/skin with Seal-it® 515 ULTRA-WIPES. Once cured, Seal-it® 472 PU-FIRE FOAM must be removed mechanically.

Limitations & recommendations

Not suitable for underwater applications and filling of large enclosed spaces/holes lacking adequate humidity. Instead, use 2K PU FOAM for this. Apply joints wider and/or deeper than 4 cm in multiple coats. Wait approx. 15-30 minutes between application of each new coat and lightly pre-moisten the surface each time, depending on the humidity at that time. Not suitable for PE, PP, PC, PMMA, PTFE, silicone, soft plastic, neoprene or bituminous surfaces. Not UV-resistant. Use a cover film to protect surrounding surfaces from spilled foam. We recommend testing adhesion and material compatibility in advance.

Health & safety

Avoid long-term contact with skin. If uncured material gets in your eyes, rinse out thoroughly with plenty of water and consult a physician. Wear safety goggles, gloves and suitable work attire. Only process in well ventilated spaces. Do not smoke or use the product in the vicinity of an open flame. Store Seal-it® 472 PU-FIRE FOAM in a safe place outside of the reach of children. The product safety data sheet is available on request.

Warranty & liability

Connect Products BV guarantees that its product will meet the specifications during its shelf life. Liability shall never exceed that stipulated in our terms and conditions of sale and supply. Under no circumstances shall the seller be held liable for any consequential damages. The information provided is the result of our testing and experience and is general in nature. However, it does not entail any liability. Users are responsible for performing their own tests to determine whether the product is suitable for the application.

Certifications

EN 1366-3/EN 1366-4
VOC emission class A+

Fire resistance test as per EN 1366-4 B1

Width (mm)	40	30	20	10	40	30	20	10
Depth (mm)	100	100	100	100	200	200	200	200
Ei, min	45	45	60	60	120	120	150	180

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