

Product

Seal-it® 430 HYBRI-FOAM is a highly flexible, airtight and highly insulating 1K insulation and assembly foam based on hybrid technology. The foam is isocyanate-free (0% MDI) and safe to use. A training requirement/special training is therefore not applicable.

Applications

- Sealing of moving joints between building and facade elements.
- Sealing of window and door frames, insulation boards, construction panels, partitions, penetrations, holes, cavities and more.
- Ideal for both small and large joints.
- Flexible and airtight sealing of movement joints, connections, seams, gaps and holes, such as between / along interior and exterior walls, cavity walls, partition walls, ceiling, roof and floor panels.
- Sealing and filling installation and assembly spaces between, along and around building and facade elements, such as prefab wooden and concrete components, aluminium, steel, wooden and plastic facades, window and door frames.

Properties

- 1K isocyanate-free (0% MDI), specially developed as a flexible insulation and assembly foam where there is no training requirement.
- Extremely low expansion pressure and post-expansion.
- Flexible quality, can absorb movements excellently.
- Meets emission class M1 GEV-Emicode EC1 PLUS.
- High thermal and acoustic insulation values, economical, reduces heat loss and sound transmission.
- Excellent adhesion to stone, stucco, plaster and masonry, concrete, gypsum, metals, wood and many plastics, such as styropor (polystyrene), PU rigid foam, polyester, hard PVC and composite.
- Durable weather, water, moisture and ageing resistant.
- Cured foam can be painted over.

Standard product line

Colour	12 x 500ml can
Off white	SI-430-0000-500

Other packaging available on request.

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.

Technical product data

Material type	STP	
Components	1K	
Type	Flexible	
Curing	Moisture curing	
Density in joint 3x10cm	35-40 kg/m ³	
Skin formation	10-20 min	
Cuttable	At minimum 1 – 1,5 hour	
Fully cured	+23°C	<48 h (joint 3 x 5 cm)
Yield per canister	WGM107	±7 m (at 750ml) in joint 3 x 5 cm
Tensile strength	EN17333-4	>75kPa
Stretch at breaking point (Moist)	EN17333-4	25% (Moisture surface)
Shear strength	EN17333-4	>25 kPa
Deformation (MTV)	WGM113	±20%
Acoustic insulation	EN ISO 10140	62 dB - R _{st,w}
Heat conductivity coefficient	EN12667	0,033W/mk (EN17333-5)
Fire class	DIN 4102-1	B3
Temperature resistance	-50°C to +90°C (Cured)	
Application temperature	+5°C to +30°C	
Can temperature at use	+15°C to +25°C (optimal 20°C)	
Shelf life	12 months	
Curing strength	EN17333-2	<0,1 kPa (dry surface)
Expansion	EN17333-2	<30 %
Pressure strength	FEICA TM 1011	>9 kPa (moist surfaces)

Application conditions

- On compatible, load-bearing, clean and grease-free substrates.
- Remove loose substrates using a suitable brush.
- Thoroughly degrease substrates, using Seal-it® 510 CLEANER.
- Before use, shake the can vigorously / well approx. 20 times.
- Slightly pre-moisten substrate if necessary, by using a plant sprayer.
- Cut off completely cured excess Seal-it® 430 HYBRI-FOAM with a knife and/or trowel.
- Before use, grease the thread of the gun adapter with Vaseline, PTFE and/or silicone spray to prevent the canister from sticking to the applicator
- After fixing the Pur applicator on the canister, the spraying speed and volume output can be adjusted by means of the adjusting screw at the back of the gun to set an efficient / economical consumption.
- When not in use, close setting screw at rear of Pur applicator until Pur applicator can no longer be activated.
- Always leave the canister on the Pur applicator until it is completely emptied.
- Remove an empty canister by simultaneously squeezing the applicator trigger while unscrewing it to release any remaining propellant.
- Then replace the Pur applicator on a full canister, and/or clean the Pur applicator thoroughly, using Seal-it® 450 PUR CLEANER.
- If a applicator does not function and/or functions badly, place Seal-it® 450 PUR CLEANER on the applicator, spray through several times and allow to work in thoroughly for approx. 15 min. Spray through again and then remove the can of Seal-it® 450 PUR CLEANER.

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 layers. Wait approx. 15-30 minutes between application of each new layer and slightly 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. Cured Seal-it® 430 HYBRI-FOAM is less sensitive to UV rays than conventional 1K PU foam. However, covering the cured foam will prolong its service life. We recommend testing adhesion and material compatibility in advance.

Cleaning

Remove fresh / uncured foam on substrate and tools immediately with Seal-it® 450 PUR CLEANER. Clean hands / skin with Seal-it® 515 ULTRA-WIPES.
Cured Seal-it® 430 HYBRI-FOAM can only be removed mechanically.

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® 430 HYBRI-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.