

TECHNICAL SPECIFICATION

UK PLANET FIRE RATED FOAM B1

UK PLANET FIRE RATED FOAM B1 is designed for mounting and sealing applications. It hardens under the air moisture effect. It shows a perfect adhesion into typical construction materials like: brick, concrete, plaster, wood, glass, metals, foamed polystyrene, hard PVC, and rigid PUR foams. It has no adhesion into polyethylene, silicone and teflon. UK PLANET FIRE RATED FOAM B1 characterizes an excellent heat-insulation, sound absorbance and high ageing resistance. Foam is additionally mould growth and fungal attack resistant.

Application

- Doorframes and windows mounting
- Heat insulation of water systems, sewage systems and central heating systems
- Fixing and insulating of wall panels, division walls, driver's cabs and boats.
- Connecting of wooden prefabricated elements in frame constructions.
- Heat insulation of roofs and floors.
- Filling of gaps in the building heat insulation.

Can/appliator temperature	+15°C do +30°C
Application temperature	+5°C do +30°C
Temperature of the surface	+5°C do +30°C
Minimum relative air humidity at 23°C	45%

Technical data:

		PARAMETERS	STANDARD
		+23°C/50%RH ³⁾	
Capacity	[ml]	1000	
Yield net content	[ml]	750	
CAPACITY (FREE FOAMING)	[litr]	35-42	RB024
CAPACITY IN A GAP ¹⁾	[litr]	24-32	RB024
Tack-free time	[min]	≤10	RB024
Cutting time ²⁾	[min]	≤40	RB024
Full cure time	[hours]	24	RB024
Thermal stability of cured foam	[°C]	-60 do +100	

Water absorbability after 24h at partial immersion without skin	[kg/m ²]	≤ 1	PN-EN ISO 1609:1999
Heat conductivity coefficient (λ)	[W/m*K]	0,036	PN-EN 12667:2002
Post Expansion	[%]	90-120	RB024
Dimensional stability	[%]	≤ 3 %	RB024
Flammability		B1 ⁴⁾ (P- NDS04-443)	DIN 4102/
Fire resistance		EI 240 ⁵⁾	EN13501-2:2008
Colour		rose	

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and 1 strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam)

¹⁾The value given for a gap with dimensions 30*100*35 (width *length *depth [mm])

²⁾The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24h. The result given for a foam strip of 3 cm diameter.

³⁾ Measurement conditions +23°C/50%RH according to PN-EN ISO 291:2008

⁴⁾ The maximum gap width of 30 mm and a depth of up to 80 mm between the monolithic, mineral or metal building materials

⁵⁾ For joints with a width of 10 mm and a depth of 200 and 240 mm and a width of 20 mm and a thickness of 240mm in construction made of aerated concrete blocks (available on request)

RB024 Facility instruction

Direction for use:

- The base should be cleaned and degreased
- Mounting of doors or windows cannot be performed without mechanical connection application
- It is recommended to warm up the container with foam to the room temperature (e.g. by using of warm water) Caution!: Do not boil the water
- Shake well the container (for approx. 30 sec) for proper ingredients mixing.
- Screw down the gun to the container
- Splash the working surfaces with a water (with the help of garden sprinkler for example)
- The container working position is bottom up
- Fill the gaps out with the foam up to its depth of 30 – 70% depending on the temperature
- Control the spray volume adjusting the pressing force applied on the gun release
- If you interrupt your work for the time longer then 15 minutes, the gun nozzle should be cleaned out with the use of polyurethane foam cleaner

- When you work under lower temperatures, it is recommended to leave applied foam till the time of full foam hardening (too early trials of foam forming or foam pretreatment may cause irreparable changes in the foam structure, worsening its functional parameters.)
- Foam excess after hardening may be removed using mechanical methods (e.g. with a knife)
- After full foam hardening it should be secured against the UV radiation using for example silicone pulp, plaster, paints

Packaging and storage

Product is packed into aerosol containers of: 750 ml capacity.

Transport:

	Duration of the transport [days]
Temperature during the transport	
< -20°C	4
-19 °C do -10°C	7
-9°C do 0°C	10

Storage time is up to 12 months (since the production date). Store in the dry and cool place in factory original containers. Storage temperature: +10°C to +30°C. Storing in temperature higher than +30°C curtail the shelf life to 9 months. For the short periods of time it may be stored in the temperature -5°C but not longer than 7days. It is not allowed to store containers under the temperature higher than +50°C and near to the naked fire. To avoid the valve choking with hardened foam, store containers in the vertical position (valve up). Container can not be neither squeezed nor pierced, even after complete emptying

Safety:

- Foam is health harmful when inhalation,
- It is recommended to wear protective clothes, glasses, and gloves,
- During the foam application process, the room should be properly ventilated, in case of need apply the airways protecting apparatus;
- Try to avoid direct contact with the human skin, in case of contact with eyes – wash them immediately with water and consult doctor;
- Do not apply the foam near the naked fire and don't smoke during operation;
- Pressurized container;
- Container can not be neither squeezed nor pierced, even after complete empty.
- Don't expose to the temperature exceeding +50°C

- Don't heat up the foam container exposing on sunlight, the naked fire, heaters, burners, and other artificial heating sources;
- Keep out of the reach of children;
- Transport of containers may be the land transport.

More detailed information regarding industrial safety is included in the Material Safety Data Sheet (MSDS).

All the information in written form or by word of mouth, recommendations and suggestions were communicated on a base of our best knowledge, researches and experiments, in a good faith, in accordance with the rules valid at producer plant and in our Company. Every user can make sure, in any possible way, including final product examination in respective conditions, about usability of delivered materials to attain targets intended by him. Company, its divisions, or the authorised company representatives can not bear responsibility for any loses resulting from improper or mistaken application of their products