TECHNICAL DATASHEET

PU-foam for gun 36-483

One-component polyurethane foam 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 to polyethylene, silicone and PTFE. Polyurethane foam is characterized by excellent heat insulation, sound absorbance and high ageing resistance. Additionally, the foam is resistant against mould growth and fungal attack.

Application

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

Technical data:

Composition:	diphenylmethane-4,4'-diisocyanate, propellants
Colour:	light-yellow
Working temperature (of base)	+5°C ~+30°C (optimum +20°C)
Container temperature	+15~+30°C
Thermal stability of cured foam	-50°C up to +90°C
Density:	0.018 – 0.022 g/cm^3 (18 – 22 kg/m^3)
Dimensional stability:	3 –5% (at 23°C, 95% RH, 24 hours)
Water absorption	2.5% (after 24 hours)
Strength:	0.05 MPa (compressive strength) 0.14 MPa (tensile strength)
Thermal conductivity factor	0.036 W/mK
Flammability	B3 (DIN 4102)
Solvent (before hardening)	acetone
Tack free time	10 – 14 min (23°C/RH 50%)
Cutting time	30-40 min (23^{0}C/RH 50%)
Time of complete hardening	24h
Yield:	35 – 42 dm^3

Direction for use:

- The substrate should be cleaned and degreased.
- It is recommended to warm the container with PU-foam to room temperature (e.g. by using warm water). Caution: Do not exceed 50 ℃!
- Shake the container well (for approx. 30 sec) for proper mixing of ingredients.
- Splash the working surfaces with water (with the help of garden sprinkler e.g.).
- Screw the gun on to the container. The container working position is bottom up.
- Fill the gaps with foam up to 30 – 70% of its depth, depending on the temperature.
- Control the spray volume adjusting the pressing force applied on the gun release.
- If you interrupt your work for a time longer than 15 minutes, the gun nozzle should be cleaned using the polyurethane foam cleaner.
- When you work at low temperatures, it is recommended to leave applied foam till the time of full foam hardening (too early trials of foam forming may cause irreparable changes in the foam structure, worsening its functional parameters.)
- Excess foam may be removed after hardening using mechanical methods (e.g. with a knife).
- After full foam hardening it should be secured against UV radiation using for example silicone pulp, plaster or paints.

Packaging and storage

Product is packed into aerosol containers of 750 ml capacity.
Storage time is up to 12 months (after production date). Store in a dry and cool place. Storage temperature: +10°C to +30°C. Storing in temperature higher than +30°C shortens the shelf life to 9 months. For short periods of time it may be stored in temperature -5°C but not longer than 7days. It is not allowed to store containers at temperatures higher than +50°C. To keep the valve free from hardened foam, store containers in vertical position (valve up).

Safety:

- Foam is harmful when inhaled.
- It is recommended to wear protective clothes, goggles and gloves.
- During the foam application process, the room must be properly ventilated, if necessary use breathing apparatus.
- Avoid direct contact with skin, in case of contact with eyes – wash immediately with water and consult doctor.
- Do not apply foam near naked flames and don't smoke during application.
- Container under pressure. Protect from sun rays. Do not expose to temperatures over 50 ℃. Do not pierce or burn even after use. Do not spray on flames or incandescent bodies. Without adequate ventilation formation of explosive mixtures may be possible.

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