



TECHNICAL DATASHEET – Shoot & Fill Fireblock foam

One-component polyurethane foam

One-component polyurethane foam is an air humidity curing prepolymerized mixture in an aerosol can. Cured foam is a good temperature and sound insulator, and has strong adhesive properties and has a fire rating to ASTM E-84. Adheres well to most building materials, with the exception of Teflon, polyethylene and silicon surfaces. Cured foam is sensitive to UV-light and direct sunlight.

Field of application

Foam is used for installation of doors and windows, insulation and fixation of tubes, filling of holes and gaps, fixation of wall panels and roof stones, and for thermal insulation.

Application conditions

Air temperature during application 41F...100F, best results at 68F.
Can temperature during application 50F...77F, best results at 68F.
Surfaces must be clean from dust, loose particles and oil before foam is applied.
Cured foam can be painted.

Application instruction

Hold the foam can in upright position, turn the gun to the can by holding the gun handle with one hand, and turn the can with the other hand. Make sure that the gun is not pointed to other persons when turning it. The can must not be screwed to the gun with the valve upside down or by turning the gun on the can. After fixing the gun, shake the can well at least 20 times. The foam output can be adjusted by gun trigger. At low temperatures foam can must be warmed before work in warm room or water. Temperature of room or water must not exceed 86F.

Cleaning

Uncured foam can be removed with acetone, cured foam only mechanically.

Technical data

Property	Unit	Value
Tack free time	minutes	12–16
Cutting time (30 mm bead)	minutes	30–40
Completely cured in joint (73F)	hours	max. 18
Completely cured in joint (41F)	hours	max. 24
Density	kg/m ³	20–25
Fire class of cured foam (ASTM E-84)		

Flame Spread		5
Smoke Developed		15
Volume decrease	%	None
Expanding volume	%	50-70
Flash point of cured foam	°F	752
Tensile strength (BS 5241)	N/cm ²	10
Compression strength at 10% (DIN 53421)	N/cm ²	3
Thermal conductivity	W/(m·K)	0,034
Sound reduction index R _{ST,w}	dB	60
Temperature resistance of cured foam	°F	long term: -58F...194F short term: -85F...230F

The values specified were obtained at +73F and 50% relative humidity, unless otherwise specified.

Storage conditions

Can must be stored and transported in vertical position. Store in a cool and dry place. Store at temperatures 41F...86F. Aerosol can must not be stored at temperatures over 122F and in direct sun.

Storage life 12 months.

Safety regulations

Can contains diphenylmethane 4,4-diisocyanate. Dangerous when inhaled. Irritates eyes, skin and respiratory organs. Inhalation of gas may cause allergy. In case of eye-contact rinse thoroughly with water and seek medical help. Do not smoke during work! Make sure that there is good ventilation, use protection means when necessary. Keep out of the reach of children. Detailed safety information is available on safety data sheet (SDS).