

Technical data sheet

Thermal insulation spray GUDFOR A++



GUDFOR A ++ patented technology, single-component polyurethane thermal insulation spray developed in collaboration with finishing and insulation professionals in the construction sector to facilitate their work when insulating hard-to-reach, complex, uneven, cylindrical, convex or polygonal surfaces. The spray has a strong adhesion to most building materials including wood, masonry, metal, glass and many plastics except Teflon and polyethylene. **GUDFOR A++** fast curing agent forms a protective plastic foam that prevents air and moisture infiltration and the loss of heat. When sprayed, the polyurethane thermal insulation is sensitive to UV and direct sunlight. When completely cured, it can be cut, sanded, plastered and painted. **GUDFOR A++** based on single-component polyurethane, is one of the most efficient and fastest solutions for cold bridges, humidity and wind insulation; its application as building insulation has been gaining popularity worldwide.

Application areas:

- Insulation of walls, roofs, attics, facades, foundations and balconies of residential and commercial buildings;
- Thermal insulation of vans, closed trailers and refrigerated cargo vehicles;
- Insulation of pipelines;
- Sealing and insulation of the inlets of communication systems;
- Insulation of tanks and wells;
- Bathroom insulation.



Operating instructions

Remove dust, impurities and grease from working surfaces and moisten by spraying. Shake the bottle, screw on the gun and put the special nozzle (included in the kit) on the tip. As much as possible,

open the gun valve Spray on the material to be bonded or on the working surface from a distance of 30-45 cm, fully pressing the gun's trigger. The maximum thickness of the layer applied should not exceed 3-5 cm (the next layer can follow after 20 minutes). Shake the gun periodically during the operation. After application, moisten the insulation material with water spray. Operating temperature: -15 °C to +35 °C. Recommended operating temperature of the bottle: +18 °C +25 °C. Fully cured in 24 hours.

Technical data:

Indicator	Units	Value
Shelf life	months	18
Adhesion time	min.	7-10
Time of polymerisation	min.	45
Full curing (+20 °C)	h	max. 24
Density	kg/m ³	17-25
Flammability class		Class E
Decreased density	%	Not available
Expansion	%	30
Thermal resistance	°C	Long-term effect: - 80 °C to + 120 °C Short-term effect: - 90 °C to + 130 °C
Sound insulation index	-	RST, w - 60 dB
Compressive strength	kPa	30[CS]
Thermal conductivity coefficient	w/mK	0.033
Water absorption	%	NPD
Vapour permeability	mg/mhPa	NPD

* These values were obtained at a temperature of +22 °C and a relative humidity of 50%

Storage conditions:

Store in a vertical position, in a dry place, at a temperature of +5 °C to +30 °C. Shelf life: 18 months. Keep the bottles with thermal-insulation spray away from direct sunlight and heat exceeding 50 °C.

Safety measures

Contains 4,4' diphenylmethane diisocyanate. Irritates the mucous membranes, upper respiratory tract and skin. Inhalation may cause an allergic reaction. In case of contact with the eyes, rinse well with water and seek medical advice. Do not smoke while working! Keep away from children. Do not store the bottles at temperatures higher than +50 °C or in direct sunlight.