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POLYNOR

SPRAY POLYURETHANE INSULATION FOAM

DESCRIPTION

POLYNOR – one component polyurethane spraying insulation for top quality insulation of buildings and houses. Polynor is used for insulating houses both inside and outside. Polynor is just as easy to use as for new houses as for renovating old ones.

Specifications

Material	PU prepolymer
Curing mechanism	Polymerization from moisture in air
Surface tack free	10 - 20 minutes
Polymerization speed	Approx 60 min*
Insulation area	from 1m ² to 3m ²
Inside structure	Fine/medium porous
Distance from the gun to the surface	10 – 45 cm
Air Permeability**	Air leakage < 0,001 L/s/m ²
Absorbs Water	< 4% v/v
Density	16 -28 kg/m ^{3***}
Surface temperature	from +10 to + 30 °C
Ambient temperature	from +5 to +40 °C
Can temperature	from +18 to + 25 °C
Coefficient of thermal conductivity	0,033 W/(m*K)
Possible expansion at heating	20%
Temperature resistance	from – 80 to +115 °C

* ambient temp 22C and Relative humidity 65%

** with the thickness of 2,5 cm. and atmospheric pressure 75 kPa

*** depends on ambient temperature, can's temperature and other conditions

Spray polyurethane insulation foam in aerosol cans. Unparalleled combination of characteristics and product quality. Perfect insulation material for almost every building. Application for thermal and acoustic insulation from basement to roof. **POLYNOR** provides outstanding thermal performance. Available to everyone, does not require special skills or equipment.

ADVANTAGES OF POLYNOR

Low thermal conductivity, seamless insulation, absence of thermal bridges and therefore heat loss, forms monolith with a surface, excellent adhesion to almost all building materials, moisture resistant, fiber-free, mould resistant, speed and ease of use, does not require insulating films, frame, and special fasteners, variable thickness of insulation layer from 1,5 cm up to 5 cm).

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AREAS OF USE

- Thermal and acoustic insulation of exterior facades, interior walls, interfloor overlappings, interior partitions, ceiling, floor, structural elements of buildings, roof, basement, foundation, balcony, loggia, doors, window slopes, inter-panel seams of buildings, car trailers, river and sea vessels, As well as freight and passenger wagons.
- Thermal insulation and wind protection of houses made of stone, brick, foam concrete, aerated concrete, cinder blocks, shell rock, wood, timber, prefabricated panel houses.
- Acoustic insulation of buildings, structures, technical premises.
- Thermal repair of defective parts of thermal insulation, by spraying on the surface.
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ADVANTAGES

- Efficient insulation of most building materials
- Seamless insulation
- Elimination of cold bridges
- Elimination of the dew point
- Increased the strength of the construction of wooden houses due to monolithic sputtering
- Isolation of surfaces with any geometric figure

PACKAGING

Aerosol can: 750 ml
Quantity in 1 crate: 12 cans
Quantity per pallet: 672 cans

STORAGE

12 months in a cool dry place
at a temperature of +5 °C to +35°C

MANUAL

1. The surrounding objects and surfaces must be protected against accidental contact with sprayed insulation **POLYNOR**. Work surfaces should be cleaned from dust, dirt, oil stains, and ice. Moisturization is only needed for porous building materials, such as brick, concrete, concrete blocks, plaster, wood. Smooth surfaces, such as metal, glass, etc., do not need to be moisturized. 2. The can should be at room temperature (18-35 °C) before work. **ATTENTION!** Do not allow can overheating! 3. Put a special **POLYNOR** nozzle (provided) on the gun barrel until it clicks by setting it against a firm surface (wall, floor, etc). You must adjust the adjusting screw of the gun to the maximum flow. 4.1. Put on the nozzle in the following manner: "ears" parallel to the ground (A) – "left-to-right" movement; "ears" perpendicular to the ground (B) – "bottom-up" movement. Application for ceiling: run position "ears" – perpendicular to the ground, "pull/push" movement. 4.2. In order to obtain economical and more uniform application of **POLYNOR** on ceilings, an angular nozzle is recommended (ask your dealer). Run position "ears" perpendicular to the ground, nozzle pointed upwards, "pull/push" movement. 5. Shake up the can thoroughly. Remove the cap from the ring and screw the gun (not supplied) to the upright standing can. 6. When spraying, you have to push the trigger firmly up to the stop. Thickness of the sprayed layer increases by 20% after 20 minutes. Therefore, do not spray more than 4 cm (4 cm + 20 mins = 5 cm). If you need greater thickness, apply the next layer 20 minutes after application of the first layer. Before that, make sure there are no water droplets on the previous layer. Number of layers is not limited. 7.1. Spraying is carried out at the distance of 30 to 45 cm from the surface depending on the formation of the spraying cone. The greater the distance – the wider the sprayed surface. 7.2. Spraying with angular nozzle allows to apply **POLYNOR** on ceiling, without changing can's proper position in space. 8. If the spraying cone is being sprayed unevenly, the reason is that the nozzle (gun) was blocked up or thermal regime was disturbed. 9. While working, can should be periodically shaken. 10. The gun should be rinsed thoroughly using the "POLYNOR CLEANER" at the end of work.

SAFETY REQUIREMENTS

Eliminate all sources of ignition before use. Cover all skin. Wear long sleeves, gloves, and safety glasses or goggles. Not for use in aviation, or food/beverage contact, or as structural support in marine applications. Provide adequate ventilation or wear proper respiratory protection. Contents under pressure. Not to be used for filling closed cavities or voids such as those behind walls and under tub surroundings; such improper use of the product could result in the accumulation of flammable vapors and/or uncured material.