



# THERMCOAT THERMAL & ACOUSTIC INSULATION PU SPRAY FOAM

A PU Foam for top quality heat and sound insulation at buildings and houses. Provides a unique, monolithic thermal insulation application without junctures, seams and gaps. An innovative alternative to traditional building insulation methods such as polystyrene heat insulation boards, glass wool and rock wool. Single-component product used with an applicator gun. It does not contain any propellant gases which are harmful to the ozone layer.

## FEATURES & BENEFITS

- Excellent adhesion to all kind of building materials,
- Can be applied easily to uneven, hard to reach surfaces where it is not possible to use traditional insulation materials,
- Excellent thermal insulation value (0.025 W/(m.K),
- Elimination of thermal bridges,
- Elimination of the dew point,
- Yield up to 3m<sup>2</sup> with 1.5cm thickness for one layer if applied from a distance of ~40cm with normal application speed,
- No need to use mechanical fastening elements after use,
- Over paintable,

## APPLICATIONS

- Roofs, attics, facades, foundations, basements, floors, interior walls, inter-floor overlappings, interior partitions, ceilings and cellars,
- Structural elements of buildings, balcony, loggia, doors, window slopes, pipes, canals and tank kind round surfaces, uneven and rough all surfaces,
- Car body and car trailers, boats, yachts, vessels and all kind of sea vehicles.

## INSTRUCTIONS

- Each can have two special plastic nozzles for spraying to the wall and ceiling. Nozzle A is for vertical surface applications and Nozzle B is for ceiling applications.
- Optimal can temperature is +20 °C.
- Application temperature is in between +5 °C and +30 °C.
- Shake the can well before use.



- Screw the can onto an applicator gun. Put the spray nozzle on the barrel until it clicks.
- Always keep the can upside down during application.
- The output of the foam can be regulated with the trigger and controlled with the adjustment screw on the back side of the gun.
- Spray the foam 30-45 cm distance from the wall for vertical applications. Spray the foam 15-20 cm distance from the ceiling for horizontal applications.
- The product can be applied at any desired thickness as long as it is applied layer by layer. The thicker, the higher insulation value.
- For an effective insulation value, the recommended application thickness is 5cm and should be reached to this thickness with minimum 3 layers. It is not possible to get the ideal insulation value with 1 or 2 layers.
- The nozzles and the applicator gun should be cleaned immediately after job finishes.

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## RESTRICTIONS

- Storage above +25 °C and below +5 °C shortens shelf life,
- The can should be stored and transported in vertical position,
- The can should be kept in room temperature for at least 12 hours before the application,
- Cured foam will discolor if exposed to ultraviolet light,
- Paint or coat the cured foam for best results in outdoor applications,
- Lower temperatures decreases yield and curing time.

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## SAFETY

- Contains Diphenylmethane-4, 4'-Diisocyanate,
- Harmful by inhalation, irritating to eyes, respiratory system and skin,
- Do not breathe spray/vapor,
- Wear suitable protective clothing and gloves,
- Use only in well-ventilated areas,
- Pressurized container. Keep away from direct sunlight and do not expose temperatures over 50 °C,
- Do not pierce or burn, even after use,
- Keep away from sources of ignition, no smoking,
- Keep out of the reach of children.

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## STORAGE AND SHELF LIFE

- 12 months if stored properly.
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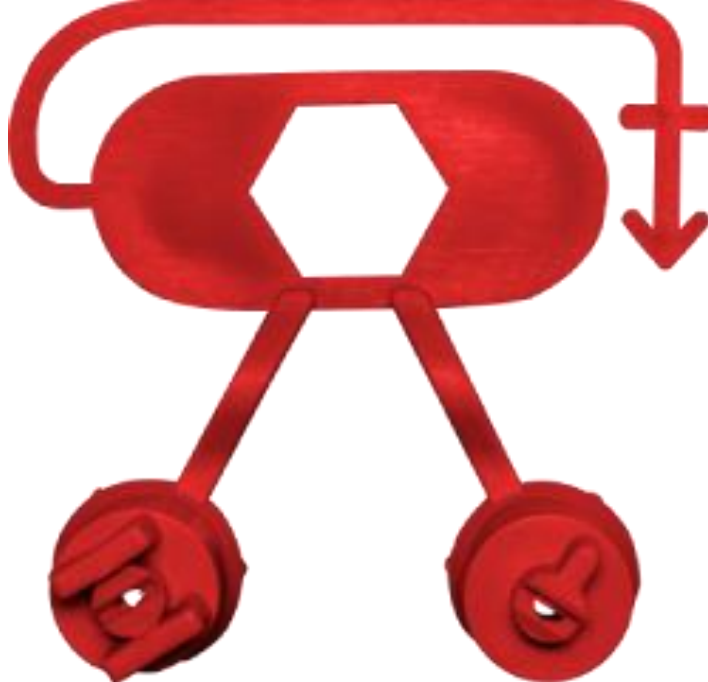
## PACKAGING

Product	Weight	Package
THERMCOAT	850ml/Gw.930gr	12

## TECHNICAL PROPERTIES

<b>Basis</b>	: Polyurethane Prepolymer	
<b>Curing System</b>	: Moisture cure	
<b>Specific Gravity</b>	: 15±1 kg/m <sup>3</sup>	(ASTM D1622)
<b>Tack-Free Time</b>	: 4 min	(ASTM C1620)
<b>Foam Color</b>	: Blue	
<b>Yield</b>	: 3 m <sup>2</sup> for 1,5 cm thickness	
<b>Fire Class of the Cured Foam</b>	: B3	(DIN 4102-1)
<b>Thermal Conductivity</b>	: 0,025 W/m.K (at 20°C)	(DIN 52612)
<b>R Value</b>	: 5,66 (per inch)	
<b>Compression Strength</b>	: 0,03 MPa	(DIN 53421)
<b>Full Cure</b>	: 24 hours	
<b>Can Temperature</b>	: min.5°C max. +30°C	
<b>Temperature Resistance</b>	: -75°C to +115°C	
<b>Application Temperature</b>	: +5°C to +30°C	

The results were obtained by providing optimum environmental conditions.



Picture 1: **Nozzle A** on the left and **Nozzle B** on the right.

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