TYTAN PROFESSIONAL THERMOSPRAY Thermal & Acoustic GUN PU Foam 29 oz

10051767

TYTAN® Professional Thermospray Thermal and Acoustic Spray Foam is a heat and sound insulation polyurethane foam designed to work in the toughest conditions. Thermospray is a certified acoustic insulation product. It comes with an easy-to-attach nozzle which allows the foam to fill gaps and voids. It is an innovative alternative to traditional insulaton methods such as polystyrene boards, glass wool, and rock wool. It is a single-component foam designed to be used with a TYTAN Professional applicator gun. For a Job Well Done, use TYTAN Professional Thermospray! ***Thermospray is compatible only with Tytan Eco Slim and Tytan Graphite applicator guns.

ADVANTAGES

- No joint, no thermal bridges
- No need to mount with fasteners
- Seamless application, homogenous insulation layer
- No gaps or air passages
- Allows leveling of surface irregularities
- The product is self-adhesive and can be used on uneven and hard-to-reach surfaces
- Can replace and/or repair 2 component foam systems
- Covers up to 21 board feet
- Sound blocking foam 62 dB

RECOMMENDED USES

- Insulation of internal and external building partition walls
- Insulation of attics, metal garages, sheds, and other places traditional 2-component foam systems are used
- Thermal insulation
- Acoustic insulation

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STANDARDS / APPROVALS / CERTIFICATES

Additional information

- No MDI emission

TECHNICAL DATA

Parameter (73°F (+23°C)/50% RH)	Value
Capacity (surface coverage) [m^2]	1,5
Heat conductivity coefficient (RB024) [W/mK]	0,036
Increase [%]	20 - 40
Curing time of one layer [min]	30
Full cure time (RB024) [h]	24
Capacity (surface coverage) (layer 5 cm) [m^2]	~ 0,6
Capacity (surface coverage) (layer 2 - 3 cm) [m^2]	>1,2
Adhesion to wood [RB024] (tested on a 20 mm gap) [kPa]	≥ 60
Adhesion to ceramics (RB024) (test conducted for a 20mm wide gap) [kPa]	≥ 100
Adhesion to steel (RB024) (tested on a 20 mm gap) [kPa]	≥ 80
Adhesion to expanded polystyrene [RB024] (tested on a 20 mm gap) [kPa]	≥ 100
Adhesion to concrete (RB024) (test conducted for a 20mm wide joint) [kPa]	≥ 100
Adhesion to cellular concrete (RB024) (test conducted for a 20mm wide gap) [kPa]	≥ 70
Capacity [ft]	21
Specific gravity [lb/ft^3]	0,93 - 1,12
Resistance to heat flow R [m^2*K/W]	0,83 - 1,39
Air infiltration coefficient [cfm/ft2]	0,003
Coefficient of air infiltration (ASTM E283) [$L/s/m^2$]	0,015
Air exfiltration coefficient (ASTM E283) [$L/s/m^2$]	0,005
Air exfiltration coefficient (ASTM E283M-19) [cfm/ft2]	0,001

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Application conditions	Value
Can/applicator temperature [°F] (optimum 68°F)	59 - 86
Ambient/substrate temperature [°F]	41 - 86

DIRECTIONS FOR USE

Prior to application, read safety instruction presented at the end of TDS and in MSDS.

Substrate preparation

- The working surface should be cleaned and degreased.
- Secure surfaces exposed to accidental foam contamination.
- Before applying the product, moisten porous building materials gently with water using e.g. a garden sprayer.

Product preparation

- Too cold can should be brought to room temperature, e.g. by immersion in warm water with temperature up to 30°C or leaving it in room temperature for at least 24 h.
- Applicator temperature cannot be lower than can temperature.
- Note! Due to possible dusting, the personal protective equipment should be used during application, i.e. working clothes (overall), gloves, masks, glasses.

Application

- The correct use of the product is only possible through the a nozzle applicator supplied with each product. Lack of an applicator makes it impossible to apply the product.
- Vigorously shake the can (10-20 seconds, the valve facing down) to thoroughly mix the components.
- Screw the can onto the applicator.
- Working position of the can is “valve facing down”.
- Mount the red spray nozzle applicator supplied with the product on the tip of the spray gun by pressing it until it stops.
- Before the application, set the spray nozzle to the required position by turning the entire applicator: Position A (red nozzle pointing parallel to the ground, pointing up towards the application) will allow for vertical spraying, i.e. from bottom to top.Position B (red nozzle with an arrow perpendicular to the ground, directed to the right or left in the direction of application) allows horizontal spraying, i.e. from left to right.
- Open the full flow of the product through the gun by unscrewing the screw regulating the opening of the pass as much as possible and fully pressing the trigger.
- Spray the foam from a distance of approx. 30 cm from the insulated surface by moving the gun slowly (depending on the nozzle setting “right-left” or “down-up”) in order to form an even layer of the product to be sprayed.
- Increasing the distance, from which spraying is carried out will widen the applied layer and at the same

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time reduce its thickness.

- The maximum recommended application distance is 50 cm.
- Spray the insulation layer in bands one next to another without overlapping.
- One layer of insulation will grow to a thickness of approx. 2-3 cm (depending on the gun speed). In order to obtain higher insulation thickness, apply subsequent layers after hardening of the previous layer, not earlier than 30 minutes after its application.
- Do not apply more than 4 cm of fresh product at any one time.
- Moisten each layer gently with water.
- The number of layers applied in this way should not exceed 5.
- Should application be interrupted for more than 5 minutes, the applicator nozzle with fresh foam should be cleaned with polyurethane foam cleaner and the can should be shaken prior to application.
- During application, clean the spray gun if foam residue accumulates on it. The foam that accumulates on the applicator blocks spraying (uneven application).
- For best comfort, use the can at room temperature. If the can is too cold, heat it up. Note! Avoid overheating the can above +30 °C.

Post-application work

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints.
- Clean the dispensing gun thoroughly after the completion of the work. To do so, place the plastic tube supplied with the dispensing gun packaging on the dispensing gun outlet to avoid the formation of mist containing the cleaner and applicator residue during cleaning. Then screw the can with the cleaner onto the dispensing gun and press the trigger until clear liquid flows out of the gun. The spraying tip is designed for single use.

Restrictions / notes

- The curing process is dependent on temperature and humidity. The decrease in ambient temperature within 24 h after the application below the minimum application temperature can affect the quality and / or correctness of the seal.
- Hurried attempts at preliminary treatment may cause irreversible changes in foam structure and its stability and may affect deterioration of foam utility parameters.
- The foam displays lack of adhesion to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Fresh foam should be removed with polyurethane foam cleaner.
- Hardened foam may only be removed mechanically (e.g. with a knife).
- Do not use the product on sparking surfaces that cause electric charge.
- The presence of open fire is unacceptable
- Do not use foam in rooms without access to fresh air and poorly ventilated, as well as in places exposed to direct sunlight and wind.

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ADDITIONAL INFORMATION

All specifications are based on laboratory tests that conform to the manufacturer's internal standards and strongly depend on the foam curing conditions (temperature cans, ambient, substrate quality of the equipment used and the skill of the person administering the foam).

TRANSPORT / STORAGE

The foam maintains its usability within 18 months from the manufacturing date, provided that it is stored in the original packaging in a vertical position (valve facing up) in a dry place at a temperature from 41°F (+5°C) to 86°F (+30°C). Storage at a temperature exceeding 86°F (+30°C) shortens the shelf life of the product, adversely affecting its parameters. The product may be stored at a temperature of 23°F (-5°C), no longer than for 7 days (excluding transport). Storage of foam cans in temperatures exceeding 122°F (+50°C) or in the vicinity of open flame is not allowed. Storage of the product in a position other than recommended may result in jamming the valve. The can should not be squeezed or pierced even when it is empty. Do not store the foam in the passenger compartment. Transported only in the trunk.

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Detailed transport information is included in the Material Safety Data Sheet (MSDS).

Transport temperature	Foam transport period [days]
< -20°C	4
-19°C ÷ -10°C	7
-9°C ÷ -0°C	10

CATALOG DATA

Nominal capacity / volume / size	Color	Pieces per pack	Index	EAN code
29 oz	N/A	12	10051767	820435037651

HEALTH AND SAFETY WARNINGS AND RECOMMENDATIONS

The information contained herein is offered in good faith based on Producer’s research and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information shall not be used in substitution for customer’s tests to ensure that Producer’s products are fully satisfactory for your specific applications. Producer’s sole warranty is that the product will meet its current sales specifications. Your exclusive remedy for breach of such warranty is limited to refund of purchase price

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