

TYTAN PROFESSIONAL Window & Door Extreme Insulating Foam Sealant 12 oz off-white



10051596

TYTAN Professional Window & Door Insulating Foam Sealant is AAMA approved and uses innovative no-bow technology to create a water and airtight seal! It saves money by providing more R-value per inch in combination with superior yield, allowing installers to install more windows & doors. With the increased R-value, it reduces energy consumption. Bonding well to most construction materials including wood, metal, vinyl, masonry, glass, and most plastics so your window & doors will stay sealed during construction and climate changes. For a Job Well Done, use TYTAN Window & Door Insulating Foam Sealant!



ADVANTAGES

- Minimal expansion technology
- More R-value per inch compared to fiberglass insulation
- Contributes to LEED's energy saving standards

Standards & Approvals

- AAMA 812
- ASTM E84
- UL Classified

RECOMMENDED USES

- Sealing for window fitting
- Filling gaps, cracks & penetrations
- Sealing roof, wall & floor joints

TECHNICAL DATA

Parameter (73°F (+23°C)/50% RH)	Value
Dimensional stability (EN 17333-2:2020) [%]	≤ 5

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Flammability class (DIN 4102)	B3
Class of reaction to fire (EN 13501-1:2008)	F
R value	4 - 5
Heat conductivity coefficient [BTU.in/hr.ft ² .°F]	≤ 0,25
Flame spread/Smoke developed (UL723 (ASTM E84))	15/10
Nominal value [oz]	12
Capacity (free foaming) (RB024) [l]	19 - 22
Capacity (free foaming) [cu.ft]	0,67 - 0,78
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	180 - 210
Skin formation time (EN 17333-3:2020) [min]	≤ 10
Cutting time (EN 17333-3:2020). The result given for a foam strip of 3 cm diameter. [min]	≤ 60
Full cure time (RB024) [h]	24
Heat conductivity coefficient (RB024) [W/mK]	≤ 0,036
Yield using 1/2" bead [ft]	536
Yield using 3/8" bead [ft]	953
Yield using 1/4" bead [ft]	2144
Yield (linear yield of 1/2" width bead) [ft]	92
VOC content [g/l]	169
Thermal resistance after curing [°F]	-200 - +240
Application conditions	Value
Can/applicator temperature [°F] (optimum 68°F)	41 - 86
Ambient/substrate temperature [°F]	23 - 100
Color	Value
Yellow	+

DIRECTIONS FOR USE

Prior to application, read safety instruction presented in MSDS.

Substrate preparation

- The foam presents ideal adhesion to typical construction materials, such as: brick, concrete, plaster work, wood, metals, styrofoam, hard PVC and rigid PUR.
- The working surface should be cleaned and degreased.
- The surface can be sprayed with water at application temperature above 32°F (0°C).
- Secure surfaces exposed to accidental foam contamination.

Product preparation

- If the can is too cold then the can should be brought to room temperature, e.g. by immersion in warm water with temperature up to 86°F (+30°C) or leaving it in room temperature for at least 24 h.

Application

- Put on protective gloves.
- 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”.
- Vertical gaps should be filled with foam starting at the bottom and moving up.
- Do not fill the entire gap – the foam will increase in volume.
- In case of sealing the open woodwork, gaps >1.18 in (3 cm) are not recommended. Gaps >1.97 in (5cm) are unacceptable. Slots wider than 1.18 in (3 cm) from the bottom to fill up from one wall to the other alternately forming a zigzag pattern.
- 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.
- In case of foam drying in the applicator, the applicator tip should be cut off, which enables resuming work with foam.

Post-application work

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints.

Restrictions / notes

- DOOR AND WINDOWS FITTING WITHOUT USING MECHANICAL COUPLING IS FORBIDDEN. LACK OF MECHANICAL COUPLINGS MAY CAUSE DEFORMATION OF THE MOUNTED ELEMENT.
- 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 be removed mechanically (e.g. with a knife).

- Quality and technical condition of used applicator affect the parameters of final product.
- The foam should not be used in spaces without access of fresh air and poorly ventilated or in places exposed to direct sunlight.
- The manufacturer recommends using strip foam once (at one go), because in case of foam drying in the applicator, the future use may be impossible.

ADDITIONAL INFORMATION

All given parameters are based on laboratory tests compliant with internal manufacturer's standards and strongly depend on foam hardening conditions (ca, ambient, surface temperature, quality of used equipment and skills of person applying the foam). For joints wider than 3 cm, the parameter values may differ from those declared in the technical data table.

The manufacturer recommends to commence finishing works after full hardening is completed, i.e. after 24 h.

Producer uses test methods approved by FEICA designed to deliver transparent and reproducible test results, ensuring customers have an accurate representation of product performance. FEICA OCF test methods are available at: <http://www.feica.com> (Our industry -> PU Foam (OCF) -> OCF Test Methods). FEICA is a multinational association representing the European adhesive and sealant industry, including one-component foam manufacturers.

TRANSPORT / STORAGE

The foam maintains its usability within 18 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperature from 41°F (+5°C) to 86°F (+30°C). Storage in temperature exceeding 86°F (+30°C) shortens the shelf life of the product, adversely affecting its parameters. The product may be stored in temperature 23°F (-5°C), no longer than for 7 days (excluding transport). Storage of foam cans in temperature exceeding 122°F (+50°C) or in 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.

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

Transport temperature	Transport period [days]
< -4°F (-20°C)	4
-2°F ÷ 14°F (-19°C ÷ -10°C)	7
16°F ÷ 32°F (-9°C ÷ -0°C)	10

CATALOG DATA

Nominal capacity / volume / size	Color	Pieces per pack	Index	EAN code
12 oz	off-white	12	10051596	820435037699

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 or replacement of any product shown to be other than as warranted. Producer specifically disclaims any other expressed or implied warranty of fitness for a particular purpose or merchantability. Producer disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.