



# TYTAN PROFESSIONAL Window & Door PRO Insulating GUN PU Foam Sealant 24 Oz

Item number: 10021988

One Component Gun Foam Sealant is a ready-to-use polyurethane expanding straw foam formulated for filling, insulating and sealing gaps, cracks and openings in the interior and exterior of buildings. The multi - purpose formula creates a durable, airtight and waterproof seal that stops air infiltration, provides high insulation value and saves time and energy. It has excellent adhesion to most building surfaces including wood, glass, metal, masonry and plastic. It is environmentally friendly with no CFC's or HCFC's and it is UL classified.

## BENEFITS

- innovative no-bow technology
- more R-value per inch compared to fiberglass insulation
- contributes to LEED's energy saving standards
- white foam color



## APPLICATION

- filling free spaces, cracks, gaps, pipe penetrations
- sealing for window fitting sealing for door fitting
- sealing roof, wall and floor joints
- thermal insulation
- acoustic insulation

## NORMS / ATESTS / CERTIFICATES

### Additional information

- UL 723
- Flame Spread 15
- Smoke Development 10
- ASTM E84
- AAMA 812-19

## TECHNICAL DATA

Parameter (73°F (+23°C)/50% RH)	Value
Nominal value [oz]	24
Capacity (free foaming) (RB024) [l]	35 - 42
Capacity (free foaming) cu [ft]	1,24 - 1,41
Yield using 3/8" bead [ft]	1612
Yield using 1/4" bead [ft]	3628
Yield using 1/2" bead [ft]	907
Capacity in gap (The value given for a gap with dimensions 35*1000*35 (width *length *depth [mm])) (RB024) [l]	24 - 28
Capacity in gap cu [ft]	0,85 - 0,99
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	90 - 130
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]	≤40
Full cure time (RB024) [h]	24
Heat conductivity coefficient (λ) (RB24) [W/mK]	≤0,036
Heat conductivity coefficient (λ) [ BTU.in/hr.ft2 .°F]	≤0,25
Dimensional stability (EN 17333-2:2020) [%]	≤5
Flame spread / Smoke developed ((UL723 (ASTM E84))	15/10
Flammability class (DIN 4102)	B3
Flammability class (EN 13501-1:2008)	F
R value (per inch)	4 - 5
VOC content [g/l]	189
<b>Conditions of application</b>	<b>Value</b>
Can / applicator temperature [°F] (optimum 68°F)	50 - 86
Ambient/substrate temperature [°F]	41 - 86
Can / applicator temperature (optimal +20°C) [°C]	10 - 30
Ambient / surface temperature [°C]	5 - 30
<b>Colour</b>	<b>Value</b>
Yellow	+



## METHOD OF USE

Prior to application, read safety instruction presented in MSDS.

### Surface 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 sprinkle 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.

## **Works after completion of application**

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints.
- If the foam is not fully used up, after completion of work the applicator and valve should be cleaned with polyurethane foam cleaner.

## **Remarks / restriction**

- 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 TYTAN 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 the entire can without stopping more than 5 minutes between spraying due to foam drying in the applicator.



## REMARKS / RESTRICTION

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).

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 12 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	Foam 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



## SAFETY AND HEALTH PRECAUTIONS

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