TYTAN PROFESSIONAL Fire Block Extreme PRO Insulating Foam Sealant 24 oz

10038659

Index number: 10038659 TYTAN Professional Fire Block Extreme Foam Sealant is a fire blocking foam sealant designed to work in the most extreme conditions, from -4°F to 113°F ambient temperatures. Though it is not approved as a fire stop, Fire Block Extreme is a certified draft stopping and fire blocking product. It is orange in color for easy inspection recognition. Fire Block Extreme uses a minimal shrinking technology to ensure an airtight seal while providing industry-leading yield and is safe to be used around windows and doors. It offers minimal post-expansion for small gap filling while also being capable of filling gaps up to three inches. It offers premium adhesion to most construction materials including wood, metal, masonry, glass, vinyl, PVC, plastics and more. With TYTAN Professional Fire Block Extreme Insulating Foam Sealant, you can Build with Confidence!

ADVANTAGES

- Type V residential fire block
- Works well between -4°F and 113°F (-20°C and +45°C)
- Works well at any humidity level
- High-yield formula

RECOMMENDED USES

- sealing for window & door fitting
- filling free spaces, cracks, gaps, pipe penetrations
- application in areas where increased fire resistance is required
- thermal & acoustic insulation

STANDARDS / APPROVALS / CERTIFICATES

Additional information

- NFPA 286

Update date: 27.02.2026

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- UL 723: Flame Spread 15, Smoke Development 10
- ASTM E84

TECHNICAL DATA

Parameter (73°F (+23°C)/50% RH)	Value
Nominal value [oz]	24
Capacity (free foaming) (RB024) [l]	52 - 59
Capacity (free foaming) [cu.ft]	1,84 - 2,08
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	80 - 110
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 (RB024) [W/mK]	≤ 0,036
Dimensional stability (EN 17333-2:2020) [%]	≤ 5
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.ft2 .°F]	≤0,25
Flame spread/Smoke developed (UL723 (ASTM E84))	15/10
Yield using 1/2” bead [ft]	1450
Yield using 3/8” bead [ft]	2578
Yield using 1/4” bead [ft]	5801
VOC content [g/l]	167
Thermal resistance after curing [°F]	-200 - +240
Application conditions	**Value**
Can/applicator temperature [°F] (optimum 68°F)	41 - 104
Ambient/substrate temperature [°F]	-4 - 113
Color	**Value**

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Orange	+

DIRECTIONS FOR USE

Prior to application, read safety instruction presented at the end of TDS and 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.
- 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.
- Applicator temperature cannot be lower than can temperature.

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.

Post-application work

- Immediately after full foam hardening, it should be secured against exposure to UV rays by using e.g. plaster or paints.
- After completion of work, the applicator should be thoroughly cleaned. To this end, a can with the cleaner should be screwed on the applicator and its trigger should be pushed until the moment, when clean fluid starts flowing out.

Restrictions / notes

- DOOR AND WINDOWS FITTING WITHOUT USING MECHANICAL COUPLING IS FORBIDDEN. LACK OF MECHANICAL COUPLINGS MAY CAUSE DEFORMATION OF THE MOUNTED ELEMENT.

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- 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.
- Use opened foam packaging within 1 week
- 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).
- 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.

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]

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< -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
24 oz	N/A	12	10038659	820435009818

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.

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