TYTAN PROFESSIONAL Fire Block 113 PRO Insulating GUN PU Foam Sealant 24 oz

10038343

TYTAN PROFESSIONAL Fire Block 113 meets or exceeds all fire block and draft stop standards. It is not an approved fire stop sealant. It is designed for the most extreme high heat and low humidity regions. It offers industry-leading 113°F ambient and can temperature without shrinking and melting in the gap. Orange in color for easy inspection recognition. It offers industry-leading expansion to fill and seal gaps in the most extreme conditiond. Applications include: electrical outlets, wire passages, ductwork, and any air passages from one building area to another. It offers premium adhesion to most construction materials including: wood, metal, mansory, grass, PVC and most plastics. With TYTAN Professional Fire Block 113 you can Build with Confidence!

ADVANTAGES

- Low foam flammability
- Orange color for easy identification
- Adheres to most construction materials
- Provides air and water tight seal
- Made to perform in extreme temperature applications

RECOMMENDED USES

- Filling free spaces, cracks, gaps, pipe penetrations
- Sealing roof, wall and floor joints
- Sealing around electrical boxes and wiring penetrations
- Sealing around plumbing, HVAC and gas line penetrations

STANDARDS / APPROVALS / CERTIFICATES

Additional information

- NFPA 286

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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]	38 - 43
Capacity (free foaming) [cu.ft]	1,34 - 1,52
Yield using 1/2” bead [ft]	984
Capacity in gap [cu.ft]	0,88 - 1,06
Secondary increase in volume (post-expansion) (EN 17333-2:2020) [%]	120 - 150
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
Heat conductivity coefficient [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
Class of reaction to fire (EN 13501-1:2008)	F
R value	4 - 5
VOC content [g/l]	178
Application conditions	**Value**
Can/applicator temperature [°F] (optimum 68°F)	59 - 113
Ambient/substrate temperature [°F]	59 - 113

DIRECTIONS FOR USE

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

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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.

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.
- 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.

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- 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 parameters are based on tests compliant with manufacturer's internal standards and are highly dependent on environmental conditions during application and curing of the foam (ambient and surface temperatures, condition of applicator and the skill of the installer).

Initial trimming of foam is based on the Cut time specified per product. If the Cut time is not specified, trimming is only to be attempted after the foam is fully cured.

The manufacturer uses test methods approved by FEICA, designed to deliver transparent and reproducible test results and to ensure that 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 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.

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

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

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CATALOG DATA

Nominal capacity / volume / size	Color	Pieces per pack	Index	EAN code
24 oz	N/A	12	10038343	820435009733

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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