TYTAN PROFESSIONAL Fire Block 113 Insulating Foam Sealant

FMS-FFBDESG1-TP-76-oz-24-124

Item number: 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!

BENEFITS

- 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

APPLICATION

- 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

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NORMS / ATESTS / CERTIFICATES

Additional information

- NFPA 286
- UL 723: Flame Spread 15, Smoke Development 10
- ASTM E84

TECHNICAL DATA

Parameter (73°F (+23°C)/50% RH)	Value
Nominal value [oz]	24
Yield using 1/2” bead [ft]	984
Yield using 1/4” bead [ft]	3937
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
Flame spread / Smoke developed ((UL723 (ASTM E84))	15/10
R value (per inch)	4 - 5
Conditions of application	**Value**
Can / applicator temperature [°F] (optimum 68°F)	59 - 113
Ambient/substrate temperature [°F]	59 - 113
Colour	**Value**
Orange	+

METHOD OF USE

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

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Surface preparation

- The working surface should be clean and free of any dust, oil, grease, etc.
- Cover and protect surfaces not intended for foam exposure.

Product preparation

- If necessary, the product should be brought to room temperature; e.g. by immersion in warm water (max temp up to 86°F (+30°C)), or by allowing the product to warm to room temperature for at least 24 hours.
- Gun temperature cannot be lower than the can temperature.
- Use protective gloves, mask and glasses.
- Shake the can vigorously for 30-45 seconds.
- Remove the protective cap, invert the can and screw the can firmly onto the dispensing gun using the plastic collar and do not overtighten.
- Maintain the can in an upside-down, inverted position during the application.
- Adjust the control knob on the gun handle to achieve the desired application flow. Point the gun into a trash can and slowly pull the trigger to test dispensing flow rate until desired bead size is determined.

Application

- Always dispense the product with the can inverted, valve down.
- While applying the foam, maintain a consistent pulling motion with the gun tip leading the direction the foam will be applied.
- Vertical gaps should be filled with the foam starting at the bottom and moving up.
- Do not fill the entire gap, the foam will increase in volume.
- Sealing gaps greater than 3.01 inches (7.65 cm) is not recommended. Gaps wider than 1.18 inches and less than 3.01 inches should be filled from the bottom to the top, in a zigzag pattern.
- If the application of the foam is delayed for more than 5 minutes, clean the applicator tip with TYTAN Foam Cleaner and vigorously shake the can prior to resuming application.
- Upon finishing the application, tighten the control knob, clean the gun tip with TYTAN Foam Cleaner, leave the gun attached and store the can in an upright position.

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Works after completion of application

- Cured foam will be damaged when exposed to UV rays. Protect cured foam by covering or painting.
- After completion of work, the gun should be thoroughly cleaned using TYTAN Foam Cleaner.
- When the can is empty, tighten the control knob, unscrew the can from the gun and spray the tip and basket of the gun with TYTAN Foam Cleaner. Then screw on the can of TYTAN Foam Cleaner, open the control knob and squeeze the trigger until clear foam cleaner solution is flowing out of the gun. Tighten the control knob to ensure no air will enter the barrel of the gun and unscrew the foam cleaner from the gun.

Remarks / restriction

- Doors and Windows should be connected to structural framing according to the manufacturer's recommendations. Use of this product does not reduce the requirement of mechanical fasteners specified by window and door manufacturers.
- Water, Gas and Electrical Piping should always be properly secured to needed substrate with regulatory mechanical fasteners per building code. Fire Block foam sealant is safe for sealing and insulating on and around all PVC, metal and plastics water, gas and electrical piping.
- Always leave the can on the gun until a new can is needed to continue or start a new application. The can should only be removed when empty and a new can is needed to complete the same job.
- Ensure the control knob is tightened when the product is not in use. Air entering the barrel of the gun for more than 2-3 minutes will decrease the efficiency and life of your gun.
- The curing of the product is dependent on temperature and humidity. A significant decrease in temperature within 24 hours of application can affect the product's properties and adhesion.
- Use opened product within seven days.
- The product will not adhere to polyethylene, polypropylene, polyamide, silicone and Teflon.
- Quality and condition of the gun can impact the performance of the foam product.
- Uncured foam can be removed with TYTAN Foam Cleaner.
- Hardened foam may be removed mechanically (e.g. with a knife).
- For the safety of the installer, always ensure access to adequate ventilation during the application of polyurethane foams.

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REMARKS / RESTRICTION

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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SAFETY AND HEALTH PRECAUTIONS

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