TITE FOAM® Big Gaps
Insulating Foam Sealant

DESCRIPTION

LOCTITE® TITE FOAM® Big Gaps is an innovative polyurethane-based insulating foam sealant that expands to fill, seal, and insulate gaps & cracks inside or out, up to 3 inches. This closed cell polymer foam is based on purified & concentrated ingredients that deliver premium durability. It is easy to use and apply with its attached straw applicator and provides a quick durable seal from the elements.

Available as:

Item #	Package	Size	Color
2839291	Metal Aerosol Canister	12 fl. oz. (340 g)	White
2959588	Metal Aerosol Canister (California only)	12 fl. oz. (340 g)	White

FEATURES & BENEFITS

- High density foam – uniform cell structure seals out air, moisture, and pests
- High flexibility withstands building material movement
- Resistant to UV energy and the elements without becoming brittle [1]
- Strong Adhesion – bonds to most building materials
- Bright white color
- Fills gaps & cracks up to 3”
- Sandable & paintable

RECOMMENDED FOR

LOCTITE TITE FOAM Big Gaps is suitable for interior and exterior projects. It has excellent adhesion to most building materials including wood, metal, stone, brick, and PVC. This product is ideal for filling gaps and cracks and sealing around wiring and plumbing penetrations, HVAC ductwork, basement and crawlspace drafts, sill plate & rim joists, attic hatches, under baseboards, gas line penetrations and outside water faucets. TITE FOAM can also be used to seal out drafts and moisture as well as keeping out pests and bugs.

LIMITATIONS

- TITE FOAM Big Gaps is not a fire stopping material and SHOULD NOT be used in areas that require fireproof or fire stopping materials
- Sealant may slip/ sag when filling vertical (overhead) joints over 1.5”
- Despite significantly higher UV resistance, it is still recommended to protect foam from UV radiation. Exposed foam should be coated with a protective covering or coating [1]
- Should not be used in contact with chimneys, heater vents, steam pipes, or other areas which could be subjected to surface temperatures greater than 187°F
- Does not bond polyethylene, polytetrafluoroethylene (PTFE)/Teflon®, siliconized and some plastic and rubber surfaces
- For cold weather application, product should be stored above 41°F (5° C) at least 12 hours before application
- In dry conditions, it is recommended to fill gaps in several layers by application of smaller foam strings (up to 3 inches thickness)
- One-time use should be expected
- Flexible sheet goods

[1] Weatherproof claim is only valid if foam is protected against UV exposure. It is recommended to cover with paint, stain, sealant, plaster, or mortar

COVERAGE

A 12 fl. oz. (340 g) can will extrude a 3/8" bead approximately 134.0 ft. (41.1 m)

Note: Yields shown are based on theoretical calculations, for comparison purposes, and will vary depending on ambient conditions and particular application conditions and particular application

TECHNICAL DATA

Typical Uncured Physical Properties

Color:	White	
Appearance:	Polymer Foam	
Base:	Single component polyurethane	
Specific Gravity:	1.107	
VOC Content:	24.5% by weight	CARB
	224 g/L	SCAQMD
VOC Content: (California only)	17.9% by weight	CARB
	174 g/L	SCAQMD
Shelf Life:	18 months from date of manufacture (unopened)	
Shelf Life: (California only)	15 months from date of manufacture (unopened)	

Lot Code Explanation:

BEST BY: MM/DD/YYYY (located on bottom of cannister)
MM = month of manufacture
DD = day of manufacture
YYYY = year of manufacture

Example: BEST BY: 10/31/2022 = Product performs best when used by October 31, 2022

Typical Application Properties

Application Temperature:	Ambient conditions should be between 23°F (-5°C) and 95°F (35°C). Can temperature be between 41°F (5°C) and 86°F (30°C).
Odor:	Slight ether
Repositioning Time:	15-20 minutes*
Tack-Free Time:	6-8 minutes* at 73°F (23°C) and 50% relative humidity
Cut Time:	45-55 minutes*
Cure Time:	Approximately 24 hours*
Clean Up:	Clean up uncured foam residue with acetone. Scrape away cured sealant using a sharp-edged tool. Follow solvent manufacturer's precautions for using solvents.

***Time is dependent upon temperature, humidity, and depth of sealant applied.*

Typical Cured Performance Properties

Color:	White	Service Temperature:	-40°F (-40°C) to 176°F (80°C)
Cured form:	Flexible solid	Paintable:	Yes
Water Resistance:	Yes	Sandable:	Yes
Dimensional Stability:	< ±5% (TM 1004-2012)	Shear Strength:	80 kPa (TM 2012-2011)
Movement Capability:	> 25% (TM 1013-2013)		

DIRECTIONS

Tools Typically Required:
Utility knife, painter's tape, or foil for protecting surfaces.

Safety Precautions:
Always wear eye protection, gloves and proper work clothes when using LOCTITE TITE FOAM Big Gaps. Protect surrounding work area from accidental foam overspray. Cured foam is difficult to remove from skin, clothing, and other substrates. May discolor skin. When transporting cans by passenger car leave the container wrapped in a cloth in the trunk, never in the passenger compartment. Maximum temperature should not exceed 120°F.

Surface Preparation:
Ensure all surfaces are clean and free from dirt, dust, oil, and other contaminants likely to impair adhesion. Surfaces can be moist but not frosted or iced. Cover surfaces not intended to be foamed. To ensure full and even curing of the foam on porous substrates (i.e., brickwork, concrete), moisturize surfaces with water spray before application.

DIRECTIONS

General Preparation:

The temperature of the working area should be between 23°F (-5°C) and 95°F (35°C). The temperature of the product should be between 41°F (5°C) and 86°F (30°C). When working in cold conditions, can should be stored above 41°F (5° C) at least 12 hours before application. Shake can vigorously before use for 30 seconds (15-20 times minimum). Attach straw trigger to can by pushing down until it clicks into place, pull the safety tab to activate trigger, hold can upside down and squeeze trigger to dispense foam. Use straw plug as needed to block foam from exiting the straw. See diagram below.

Application:

Holding can upside down, press the trigger which controls outflow rate of the foam. Dispense the foam sparingly, filling the joint initially by half to avoid excessive overflows. Shake can regularly during use. Slight misting with water can speed cure. Foam can be trimmed with a knife after an hour. Foam will be fully cured in approximately 24 hours. It is recommended foam be protected from UV radiation by a protective covering or coating, such as, paint, plaster, mortar, etc. to avoid discoloration.

Note: The structure of the sealant in larger joints will be compromised when curing conditions are at the extremes, such as, in direct sunlight, very low humidity, or at the low or high end of the application temperature range. To get the best foam structure and properties, it is recommended to fill gaps and joints in several layers by the application of smaller foam strings (up to 1-inch thickness). At very dry conditions, the foam may be brittle after hardening. This brittleness is a temporary effect and disappears after a while or by warming up.

Clean-up:

Clean tools and uncured foam residue immediately with acetone. Cured foam must be carefully cut away with a sharp-edged tool.

STORAGE & DISPOSAL

Product must be stored vertically, not horizontally on its side.

Store in a cool, dry place. For maximum performance and shelf life, store between 41°F (5°C) and 77°F (25°C). The product can be stored for a maximum of 1 week at -4°F (-20°C). Do not store below -4°F (-20°C); below this temperature product valve may spontaneously open, resulting in leakage.

Containers are under pressure. Do not expose to open flame or temperatures above 120°F (49°C). Do not store under direct sunlight. Excessive heat can cause bursting and premature aging of components resulting in shorter shelf life. When containers are empty, vent off any excess pressure. DO NOT discard empty can in garbage compactor. DO NOT incinerate. DO NOT puncture, cut, or weld container.

Recommended method of disposal for unused product: Vent off excess pressure and dispose of in an appropriate waste receptacle. Dispose of according to federal, state, and local governmental regulations.

LABEL PRECAUTIONS

DANGER! EXTREMELY FLAMMABLE. VAPOR MAY CAUSE FLASH FIRE. VAPOR AND SPRAY MIST HARMFUL, OVEREXPOSURE MAY CAUSE LUNG DAMAGE. MAY CAUSE ALLERGIC RESPIRATORY AND SKIN REACTION. CONTENTS UNDER PRESSURE.

DANGER! Contains polyurethane prepolymer, methylenediphenyldiisocyanate, dimethylether and hydrocarbon propellant mixture. Do not use near sparks, heat, or open flame. Vapors will accumulate readily and may ignite explosively. Ventilate area during use and until all vapors are gone. **DO NOT SMOKE WHILE USING**. Extinguish all ignition sources. If burned, dried foam may release hazardous decomposition products. Dried foam may be combustible if exposed to flame or temperatures above 240°F. Avoid prolonged exposure to sunlight or heat from radiators, stoves, hot water, and other sources of heat that may cause bursting. Do not puncture, incinerate, burn, or store above 120°F. Do not discard empty can in garbage compactor. Gives off harmful vapor of solvents and isocyanates. Do not use if you have chronic lung or breathing problems, or if you have ever had a reaction to isocyanates. Use with adequate ventilation. Use appropriate respiratory protection when potential to exceed exposure limits exists. If you have breathing problems during use, leave the area and get fresh air. If symptoms develop or persist, call a doctor or obtain medical treatment; have this label with you. **EYE AND SKIN IRRITANT**. Avoid contact with eyes and skin. Prolonged or repeated skin contact may lead to sensitization and dermatitis. Wash hands after using. Do not swallow. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

FIRST AID: For eye contact flush with water for 15 minutes. Call a physician if irritation develops and persists. For skin contact, wipe off excess uncured foam with a clean rag or paper towel immediately. Get medical attention if irritation develops and persists. If affected by inhalation, remove to fresh air and contact a physician. If swallowed, do not induce vomiting. Call a physician or Poison Control Center immediately. **KEEP OUT OF REACH OF CHILDREN.**

⚠ **WARNING: Cancer and Reproductive Harm – www.P65Warnings.ca.gov**

Refer to the Material Safety Data Sheet (MSDS) for further information

DISCLAIMER

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