

PUR FILL 205

Two-Component E84 Class 1 Spray Foam

PUR FILL 205 is a two-part chemical curing foam for filling and insulating large voids.

A Professional Spray Foam System



Applications

- Create air tight seals
- Improve energy efficiency
- Perfect for: wall cavities, attics, crawl spaces, metal buildings and garages
- Fill large voids

Features

- Chemical curing 2-part foam for fast curing
- 9.5 foot hose to get to hard to reach spots
- Extra nozzles included
- Portable

Instructions

- Tank temperature should be 75° F to 85° F when foaming
- Professional use only
- Use extreme care when foaming
- Wear protective clothing
 - For eyes: safety glasses or goggles
 - For skin: long sleeve clothing
 - For hands: use Nitrile gloves
 - For lungs: use respirator
 - Foam in a well ventilated area

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PLEASE READ ALL INSTRUCTIONS BEFORE YOU BEGIN!!!

DESCRIPTION

PUR FILL 205 is a low pressure foam system that utilizes a non-flammable blowing agent. PUR FILL 205 has been specifically formulated for flame retardancy and conforms to the requirements of ASTM E84 as a "Class 1 (A) system (flame spread of 25 or less, smoke development of 450 or less). The foam helps to lower heating and cooling costs by drastically reducing energy consumption.

APPLICATION AREAS

PUR FILL 205 is specifically designed to spray onto flat or irregular surfaces and to fill large cavities where flame retardant requirements specify E84 Class 1 (A) Spray Foam. Spray foam onto any clean, dry surface in any direction. Fill and seal various size voids to insulate, deaden sound, and reduce vibrations.

PROPERTIES

Two-component foam systems will expand immediately upon chemical reaction of A component (isocyanate) and B component (a polyol blend). In typical applications, depending on various factors such as cavity size and ambient conditions, the final volume will be 3 to 5 times the dispensed volume.

PUR FILL 205 fully expands and dries tack-free within 30-60 seconds, is cuttable in 2-5 minutes and fully cures within one hour.

PUR FILL 205 adheres to almost all building materials with the exception of surfaces such as polyethylene, Teflon®, polypropylene, silicone, oils, greases, mold release agents and similar materials.

Optimum application temperature is 75° F (24° C) to 85° F (29° C) but may be sprayed onto colder or warmer substrates, with slight effects on the foam characteristics. Cured foam is resistant to heat and cold, -200° F to +240° F (-129° C to +116° C), and to aging, but not UV rays (i.e. sunlight) unless painted, covered or coated. Cured polyurethane foam is chemically inert and non-reactive in approved applications, and will not harm electrical wire insulations, Romex®, rubber, PVC, polyethylenene (i.e. PEX) or other plastick. It is approved for use around wires, plumbing preparations, etc.

PREPARATION FOR USE

Substrate must be clean, dry, firm, free of loose particles and free of dust, grease and mold release agents. Protect surfaces not to be foamed.

Shake kits well *before* using.

USE

Warm tanks to 75° F - 85° F (24° C - 29° C). After following instructions for setup, attach appropriate hose to tanks A and B. Shake kits well before using. Open tank valves as directed. Materials are dispensed through the hoses. Attach the static cone or fan nozzle to the end of the dispensing unit. The A-component and the B-component meet and mix in the disposable nozzle. With a nozzle attached to the two-component froth dispensing unit, dispense foam by squeezing the trigger of the unit. To interrupt or stop foaming process, release the trigger. Once foaming process has stopped, the dispensing

unit must be reactivated within 30 seconds or a new nozzle **must** be installed. Fresh foam may be applied in several stages to reduce overfilling of void or damage to non-rigid, confined cavities. Cured foam can only be removed mechanically.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Use only in a well-ventilated area with certified respiratory protection or a powered air purifying respirator (PAPR). Wear protective glasses or goggles with side shield, nitrile gloves, and clothing that protects against dermal exposure. Read all instructions and safety information (MSDS) prior to use of any product.

KEEP OUT OF REACH OF CHILDREN

PRODUCT STORAGE

Store in a dry area. Do not expose the kit or tanks to open flame or temperatures above 120° F (49° C). Excessive heat can cause premature aging of components resulting in a shorter shelf life.

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TECHNICAL DATA

DENSITY

ASTM D1622 Free Rise	1.75 lb/ft ³ (28 kg/m ³)
ASTM D1622 In-place density	2.12 lb/ft ³ (34 Kg/m ³)

K-FACTOR

ASTM C518	
Aged 90 days at 140° F (60° C)	0.166 BTU-inch/ft ² •h•° F (0.023 W/m•K)

R-VALUE (Metric RSI in parantheses)

Aged 90 days at 140° F (60° C)	6.0/inch (RSI=1.05/inch)
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AIR BARRIER PROPERTIES

ASTM E283

Tested at 1" thickness	0.003 cfm/ft ² (0.02 L/s/m ²)
@1.57 psf (75 Pa)	

PERM RATING

ASTM E96-Method A	
1" (2.54 cm)	1.67 (100ng/(m ² •P•as))•Class III Vapor Retarder
2" (5.04 cm)	1.44 (82ng/(m ² •P•as))•Class III Vapor Retarder
3" (7.62 cm)	1.00 (57ng/(m ² •P•as))•Class II Vapor Retarder

TENSILE STRENGTH

ASTM D1623	29 lbf/in ² (200 kPa)
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AIR PERMEANCE

ASTM E2178	.02 l/(m ² •s)
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COMPRESSIVE STABILITY

ASTM D2126	
Parallel @ 10%	26 lbf/in ² (182 kPa)
Perpendicular @ 10%	16 lbf/in ² (182 kPa)

DIMENSIONAL STABILITY

ASTM D2126	
HEAT AGE: +158° F (70° C)	-0.6%
HUMID AGE: +158° F (70° C), 100% RH	+2.9%
COLD AGE: -4° F (-20° C)	-0.3%

FIRE RATING

ASTM E84	Flame Spread Index = 20
Tested at 2" thickness (full coverage)	Smoke Developed = 400

FIRE RATING

CAN/ULC S102	Flame Spread Index = 9
Tested at 2" beads	Smoke Developed = 43

Caulking & Sealant

FIRE RATING	Meets
FMVSS 302/CMVSS 302	Burn rate 0/00 in/min