

Expanding Insulation Foam Data Sheet

Product Description

Xcel Expanding Insulating Foam (EIF) is a one-component, all season, multi-purpose low expansion foam formulated for filling, insulating and sealing gaps, in the interior and exterior of buildings. Xcel EIF creates a durable, airtight and waterproof seal that stops air infiltration, provides high insulation value and saves time and energy. It has excellent adhesion to most building materials including wood, glass, metal, masonry and plastic and can be easily cleaned by Xcel SGC. It is environmentally friendly with no CFC's or HCFC's and it is UL classified.

Main Benefits

- ✓ High Yield Insulating Foam
- ✓ Low Foam/Expansion Pressure
- ✓ R Value of 4-5 per inch
- ✓ Excellent Thermal & Acoustic Insulation
- ✓ Able to be cut within 40 mins
- ✓ Meets UL723, ASTM E84, & AAMA 812-19



Directions for Use:

- Always apply on a clean, dust and grease free surface and use gloves and safety glasses.
- Shake canister for 10-20 secs before use, or in between intermittent use. Ensure canister is close to room temperature before use
- When using Xcel's FDG - enable needle lock before screwing on canister
- Ensure canister is firmly screwed on to applicator gun to prevent leakage.
- Canister can remain on gun for up to 30 days, when gun is kept clean.
- Screw control knob to control desired flow of insulating foam.
- Pull trigger to dispense insulating foam.
- For best results lightly spraying cavities with water will allow foam to cure and develop proper structure especially in low humidity climates and/or air flow.
- Vertical gaps should be filled with foam starting at the bottom and moving up.
- Use Xcel SGC to clean gun when changing canisters or acetone to remove any excess foam residue.
- When changing canisters, ensure all pressure has been released from can. Unscrew empty canister while holding applicator trigger.
- Clean gun with Xcel Solvent Gun Cleaner, pulling trigger and allowing gun to dispense small amounts. Once cleaned, apply new canister immediately by following instructions above.

Technical Information:

Canister Volume: 29 oz or 860 ml
Yield using 1/2" (12.7 mm) bead: 1240 ft or 378 m
Skin formation time: < 10 mins
Capacity (free foaming) (cu.ft): 1.70 - 1.91
Capacity in gap (cu.ft): 1.02 - 1.20
Full cure time: 24 hrs
VOC content: 153 g/l
Application Temperature: (-20°C to +40°C) -4°F to 104°F
Colour: Tan

Properties of cured product:

Secondary Increase in Volume (%): 90 - 130
Cutting Time (min): <40
Dimensional Stability (%): <5
Heat conductivity coefficient: <0,25 BTU.in/hr.ft2.°F
Flame Spread/Smoke Developed: 15/10 (ASTM E84/UL723)
Flammability Class (DIN 4102): B3
Service Temperature: (-40°C to +90°C) -40°F to 195°F
R value (per inch): 4 - 5
Closed Cell Content: 70-80% closed cell (ASTM D6226)

Limitations:

- Door and Window fitting without using mechanical coupling is forbidden. Lack of mechanical coupling may cause deformation.
- 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 Xcel SGC.
- 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.

Storage and Safety:

The shelf life is 18 months from manufacturing date, provided that it is stored in original packaging in vertical position (valve facing up) in a dry place in temperatures from 41°F (+5°C) to 86°F (+30°C).

Avoid skin and eye contact. For further safety information see the corresponding Safety Data Sheet.

