



TECHNICAL DATA

PRODUCT CODE

147 000

Technical data # 20090625

«POLYFOAM»

DESCRIPTION

«POLYFOAM» is a one-part polyurethane foam with insulating adhesion and sealant properties.

INTENDED USES

«POLYFOAM» will expand after application to completely fill and seal gaps, cracks, holes, voids, etc. between most types of construction materials in the building envelope such as windows, entrances, structural elements, walls and roofs intersections, and penetrations (electric outlets, pipes, etc.).

- Air barrier:** prevents spread of odors, air, dust, moisture, smoke or toxic gas to other areas of the building; forms an airtight seal that withstands normal wind and mechanically induced air pressures.
- Noise control:** diminishes sound and noise transmission.
- Thermal insulation:** reduces thermal lost and energy costs.
- Others:** prevents possibility of water leaks and flooding to other areas; a wire mesh embedded within «POLYFOAM» forms a barrier against rodents, birds and other pests.

- REMARKS:**
- outdoor application areas must be protected against UV rays;
 - does not withstand immersion (tanks) or abrasion (traffic).

ADVANTAGES

- ⇒ Sticks on dry or damp surfaces.
- ⇒ Compatible with most normal construction materials, including other plastic foam insulation.
- ⇒ Saves energy.
- ⇒ Does not shrink after installation.
- ⇒ Thermal Resistant, R-Value from 4 to 5 per inch of thickness.
- ⇒ Can be apply in beads of 75 mm (3 in.) diameter or less.

STORAGE AND APPLICATION TEMPERATURE

«POLYFOAM» does not deteriorate below freezing point. Anyhow, it is recommended to store it in a dry place of which the temperature is between 15°C (60°F) and 30°C (86°F) to make its use always possible. Thus, the sealed containers of «POLYFOAM» could be preserved for 24 months.

Storage between 30°C (86°F) and 49°C (120°F) will short shelf-live; **never store at temperatures over 49°C (120°F)**. If the product is stored below 15°C (60°F), thaw it slowly at a temperature between 15°C (60°F) and 30°C (86°F) during 24 hours before using. Product and surfaces temperature must be between 15°C (60°F) and 40°C (100°F). At colder temperature «POLYFOAM» will not foam properly.

SURFACE PREPARATION

Surfaces must be free of dust, oil, grease, frost or all loose particles, which may impair adhesion.

Protect adjacent surfaces with masking tape and paper or plastic.

If concerned about bowing of lightweight frames, provide temporary bracing before applying «POLYFOAM».

Avoid insertion into small tubular sections composed of non-porous materials (metal, aluminum, etc.).

RECOMMENDED PRIMER

No primer normally required.

YIELD (25°C (77°F), 50% relative humidity)

Approximately 652 m (2140 feet) per 820 g container or 270 m (880 feet) per 340 g container of 9.5 mm (3/8 in.) bead.

APPLICATION

1. Wear safety goggles, gloves and work clothes. Keep a cloth and cleaner as acetone handy for clean up.
2. **Shake can vigorously for at least one minute.** Screw the nozzle/trigger assembly into the valve.
3. Surface could be moisten with a damp cloth or spray with water to improve adhesion.
4. To dispense, hold the can upside down and pull the trigger. If it is your first use, practice on old newspapers.
5. **Do not fill the cavity more than 30% to allow for post-expansion of the «POLYFOAM» for about an hour.**
6. While curing, «POLYFOAM» may be tooled when tack-free. It will contract within itself because of its cellular nature.
7. Multi-layer application may be necessary with successive layers being allowed at least one hour to cure before next layer is applied.
8. Curing may be accelerated in deep cavities by slight moistening of the surrounding surface before dispensing of «POLYFOAM».
9. **Store in a cool safe place out of the reach of children.**
10. Cut, or sand excess «POLYFOAM» after curing to be flush with surrounding surfaces or recess to sufficient depth for facing by finishing caulking if necessary.
11. If exposed to sunlight, protect «POLYFOAM» surface «POLYFOAM» may be painted if desired, or covered over with interior finishes such as plaster, drywall, paneling, trim, grout, etc.

Maintenance:

Under normal conditions «POLYFOAM» does not require any maintenance.

Damaged areas may be easily repaired by insertion of replacement «POLYFOAM» into the affected areas.

TECHNICAL GUIDE

COMPOSITION:	Moisture cure polyurethane polymer (binder), hydrocarbons (foam agent and inert propellant), flame retardant and other additives; does not contain urea formaldehyde or has any food value for insects, rodents, etc.
CLEANER (wet product):	Use acetone or xylene; paint thinner and mineral spirits do not clean polyurethane foam properly.
CLEANER (dried product):	Remove excess by trimming with knife and / or sanding; cured «POLYFOAM» cannot be removed by solvent.
CLEANER (skin contact):	Use an abrasive soap and rinse carefully with warm water.
FLAMMABILITY:	Contains fire retardant.
SHELF-LIFE:	12 months from manufacture date.
DENSITY:	After being sprayed: 17.6 kg/ cu. m (1.2 lbs/cu. Ft).
WATER ABSORPTION:	3%.
TACK FREE TIME:	5 to 10 minutes depending of relative humidity.
CURE TIME:	12 to 24 hours at 20°C (70°F) depending of relative humidity.. (1 inch diameter bead can be cut after 1 hour)
VOLATILE ORGANIC COMPOUNDS (VOC) (less water and exempt solvent):	Less than 20% (w/w)

RESTRICTIONS

«POLYFOAM» is not recommended for long-term exposure to temperatures above 120°C (250°F) or to open flame.

Not for joints submerged in water for prolonged periods of time. Between PVC frames and walls structures, do not fill cavity on more than 1-inch depth.

Expansion and drying time will depend on temperature, relative humidity, ventilation and product thickness.

Adhesion on materials not specifically mentioned cannot be guaranteed. It is up to the customer to make his own performance tests or to consult our technical department.

SAFETY PRECAUTIONS

Before using, «POLYFOAM» read its Material Safety Data Sheet. KEEP OUT OF REACH OF CHILDREN.

MAY IRRITATE EYES AND SKIN. CONTENTS AND FUMES MAY CATCH FIRE. CONTAINER MAY EXPLODE IF HEATED.

Do not get in eyes or on skin or clothing. Keep out of reach of children. Do not smoke. Do not puncture. Do not burn. Use only in well-ventilated area. Keep away from flames, such as a pilot light, and any object that sparks, such as an electric motor.

Store away from heat.

FIRST AID TREATMENT: Contains Methylene bis (4-phenyl isocyanate) (MDI). If swallowed, call a Poison Control Centre or doctor immediately. Do not induce vomiting. If in eyes or on skin, rinse well with water for at least 15 minutes. If on clothes, remove clothes.

Disposal: consult your municipality to dispose in conformity with regulations.