



TECHNICAL DATA

PRODUCT CODE

«SUPRA EXPERT POLYURETHANE FOAM»

105370

Technical data # 20060531

DESCRIPTION

«SUPRA EXPERT POLYURETHANE FOAM» is a one part low expansion polyurethane foam with insulating adhesion and sealant properties that must be used with a professional dispensing gun.

INTENDED USES

«SUPRA EXPERT POLYURETHANE FOAM» 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: decreases 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 «SUPRA EXPERT POLYURETHANE FOAM» 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

- ⇒ Does not require any mixing or proportioning on the job.
- ⇒ Sticks on dry or damp surfaces.
- ⇒ High adhesion on most building materials.
- ⇒ Expansion approximately 25%.
- ⇒ Does not shrink after installation.
- ⇒ Cures within 6 hours to semi-rigid seal that allows for normal movement between building components.
- ⇒ Thermal Resistant, R-Value of 4.5.per inch of thickness.

SURFACE PREPARATION

1. Product and surfaces temperature must be between 5°C (40°F) and 40°C (100°F). At colder temperature «SUPRA EXPERT POLYURETHANE FOAM» will not foam properly.
2. Surfaces must be free of dust, oil, grease, frost or all loose particles which may impair adhesion.
3. Protect adjacent surfaces with masking tape and paper or plastic.

If concerned about bowing of lightweight frames, provide temporary bracing before applying «SUPRA EXPERT POLYURETHANE FOAM».

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

RECOMMENDED PRIMER

No primer normally required.

APPLICATION

1. Wear safety goggles, gloves and work clothes. Keep a cloth and cleaner handy for clean up.
2. **Shake can vigorously for at least one minute.**
3. Screw can onto gun coupling, do not over tighten (see gun care).
4. Surface could be moisten with a damp cloth or spray with water to improve adhesion.
5. To dispense, hold the can upside down and pull the trigger. If it is your first use, practice on old newspapers.
6. **Do not fill the cavity more than 50% making allowance for post-expansion of the «SUPRA EXPERT POLYURETHANE FOAM» for about an hour.**
7. While curing, «SUPRA EXPERT POLYURETHANE FOAM» may be tooled when tack-free. It will contract within itself because of its cellular nature.
8. Multi-layer application may be necessary with successive layers being allowed at least one hour to cure before next layer is applied.
9. Curing may be accelerated in deep cavities by slight moistening of the surrounding surface before dispensing of «SUPRA EXPERT POLYURETHANE FOAM».
10. Store in a cool safe place out of the reach of children.
11. Cut, or sand excess «SUPRA EXPERT POLYURETHANE FOAM» after curing to be flush with surrounding surfaces or recess to sufficient depth for facing by finishing caulking if necessary.
12. «SUPRA EXPERT POLYURETHANE FOAM» may be painted if desired, or covered over with interior finishes such as plaster, drywall, paneling, trim, grout, etc.
13. Protect «SUPRA EXPERT POLYURETHANE FOAM» surface if exposed to sunlight.

Maintenance: Under normal conditions «SUPRA EXPERT POLYURETHANE FOAM» does not require any maintenance. Damaged areas may be easily repaired by insertion of replacement «SUPRA EXPERT POLYURETHANE FOAM» into the affected areas.

PVC WINDOWS

The thermal variation for the PVC request a minimal width of «SUPRA EXPERT POLYURETHANE FOAM» on both side of the window frame.

PVC length:	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.	7 ft.	0.5 m	1 m	1.5 m	2.0 m	2.5 m	3.0 m
Minimal width of «SUPRA EXPERT POLYURETHANE FOAM» on both side of the window frame:	3/8 in.	1/2 in.	3/4 in.	7/8 in.	1 in.	1 1/8 in.	7 mm	14 mm	21 mm	28 mm	34 mm	41 mm

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

Linear metres per 680 g container:

Depth (cm)	5	10	15
Width (cm) 1	35.6	17.8	11.9
2	17.8	8.9	5.9
3	11.9	5.9	4.0
4	8.9	4.4	3.0
5	7.1	3.6	2.4

Linear feet per 680 g container:

Depth (po.)	2	4	6
Width (po.) 1/2	90	45	30
1	45	23	15
1 1/2	30	15	10
2	23	11	7

GUN CARE

1. Apply petroleum jelly to the adapter on the gun to make sure the can will not stick to the gun when removing. Do not twist the can onto the adapter too tightly.
2. After attaching the can pull the trigger until fresh foam starts to come out of the gun, or the air in the system will cause the foam in the gun to cure.
3. When the can is empty **replace it immediately.** The foam in the gun will cure if the can is removed and not replaced.
4. **Never leave a gun without a can attached** unless the gun has been thoroughly cleaned with « SUPRA EXPERT FOAM CLEANER ».
5. « SUPRA EXPERT FOAM CLEANER » only needs to be used if the foam flow rate slows or the gun is to be repaired or stored for a length of time. If cleaner is necessary, use at least half of a can.

TECHNICAL GUIDE

COLOR:	Cream.
STORAGE:	When possible store between 5°C (40°F) and 30°C (86°F); storage between 30°C (86°F) and 49°C (120°F) will short shelf-life; Never store at temperatures over 49°C (120°F); if the product is stored below 5°C (40°F), thaw it slowly at a temperature between 5°C (40°F) and 30°C (86°F) during 24 hours before using.
COMPOSITION:	Moisture cure polyurethane polymer (binder), chlorodifluoromethane (foam agent), 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 «SUPRA EXPERT FOAM CLEANER», 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 «SUPRA EXPERT POLYURETHANE FOAM» cannot be removed by solvent.
CLEANER (skin contact):	Use an abrasive soap and rinse carefully with warm water.
FREEZE-THAW STABILITY:	Will not be affected if frozen.
APPLICATION METHOD:	Professional dispensing gun for polyurethane insulation foam.
APPLICATION TEMPERATURES:	From 5°C (40°F) to 32°C (90°F).
IDEAL APPLICATION TEMPERATURES:	From 15°C (60°F) to 32°C (90°F).
SHELF-LIFE:	18 months from manufacture date.
EXPANSION:	Approximately 25 %.
DENSITY (after being sprayed):	1.3 to 1.8 pd/cu. ft.
WATER ABSORPTION:	3%.
ELONGATION BEFORE RUPTURING:	12 %
THERMAL RESISTANCE:	R-Value of 4.5 per inch of thickness.
TACK FREE TIME:	6 to 10 minutes depending of relative humidity.
CURE TIME:	Approximately 6 hours at 20°C (70°F).
FLAMMABILITY:	Contains fire retardant.
SURFACE BURNING CHARACTERISTICS *:	Flame Spread 15 Smoke Developed 25

* Applied to inorganic reinforced cement board as applied in two 3/4 in. diameter beads 5 inch on center covering 8.3 per cent of the exposed test sample area. The material is packed under pressure. Investigation did not include evaluation of either the pressurized containers or the material prior to dispensing.

RESTRICTIONS

«SUPRA EXPERT POLYURETHANE FOAM» is not recommended for long-term immersion, 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.

For applications on or with non-specified materials, consult our technical department.

SAFETY PRECAUTIONS

Before using, consult «SUPRA EXPERT POLYURETHANE FOAM» Material Safety Data Sheet (MSDS) for information on safety measures.

KEEP OUT OF REACH OF CHILDREN.

Contents under pressure, do not place in hot water, near radiators, stoves heaters open flame or other heat sources or at temperatures over 49°C (120°F). Do not puncture. Do not burn.

Disposal: dispose in accordance to applicable Federal, Provincial and Municipal regulations.