



TYTAN PROFESSIONAL EXTREME CLIMATE PRO

TYTAN PROFESSIONAL EXTREME CLIMATE PRO is an innovative one-component polyurethane straw foam specially formulated for use in extreme temperatures, down to 14F/ -10°C and up to 86F/ 30°C . Excellent for filling, insulating and sealing of gaps, cracks and openings in the interior and exterior of buildings. The ground-breaking formula creates a durable airtight seal, and stops cold air infiltration and heat loss. Extreme Climate Pro provides a high insulating value, is economical and saves energy. It has excellent adhesion to most building surfaces including wood, glass, metal, masonry and plastic. It is environmentally friendly with no CFC's or HCFC's and it is UL Listed.

FEATURES

- ⇒ **Excellent for interior and exterior extreme climate applications**
- ⇒ **Low temperature formula - cures even in freezing weather 14°F (-10°C)**
- ⇒ **Economically insulates, fills, seals and bonds**
- ⇒ **Easy-to-use**
- ⇒ **Durable airtight seal - stops cold air infiltration and heat loss.**
- ⇒ **High insulating value - saves energy and money**
- ⇒ **Bonds to and seals popular construction materials, wood, concrete, plaster, plumbing etc.**

TYPICAL APPLICATION

Wide range of interior and exterior sealing and insulating applications such as basement areas, roof areas, and in plumbing, electrical, heating and cooling penetrations:

- excellent to fill and seal all interior and exterior building gaps, cracks and openings
- excellent fill and seal in exposed corner t-joint and studs
- excellent to fill and seal around utility panels, duct penetrations, pipes, air/heating vents or hatch perimeter access
- excellent to seal and insulate under the edges of exposed siding

APPROVALS/STANDARDS

TYTAN EXTREME CLIMATE FOAM is approved by the following Classifications, Codes and Standards:

- ⇒ UL Classified 75 NN R-20556





TECHNICAL DATA SHEET

- Flame Spread: 10
- Smoke Developed: 20
- ⇒ Contains no CFC's or HCFC's.
- ⇒ NFPA 30B Classification: Level 3 Aerosol



TECHNICAL DATA SHEET

TECHNICAL DATA

| | | |
|----------------------------------|------|--|
| Base | | polyurethane |
| Type | | foam sealant |
| Appearance | | foam |
| Color | | yellow |
| Odor | | odorless when cured |
| Ideal application temperature | | 14°F/ -10°C to 86°F/ 30 °C |
| Can temperature | | min.14°F/ -10 °C |
| Service temperature after curing | | -76°F/ -60 °C to 212°F/ 100 °C |
| Drying time | | tack-free 10min.(68°F/ 20 °C), 25 min (32°F/ 0 °C), 50 min (14°F/ -10 °C) |
| Cutting time 1" | | 1 hrs (68°F/ 20 °C), 2hrs (32°F/ 0 °C), 5hrs (14°F/ -10 °C), max 24hrs |
| Cure | | in 6 hrs (68°F/ 20 °C), in12 hrs (32°F/ 0 °C), 36 hrs (14°F/ 0 °C), fully cure after max 48 hrs |
| Density | | 1,12-1,37 lbs./cu. ft. |
| Shrinkage | | less than 5% (in 73°F/ 23 °C, 50%RH) after first 24 hrs. |
| Water absorption | | 1,5% after first 24 hrs then waterproof |
| Compression strength | | 7 PSI |
| Tensile strength | | 20 PSI |
| % Closed cell content | | up to 70% |
| Thermal Conductivity | | 0,036W/mK |
| Solvent before cure | | Acetone |
| Yield can 24 oz. | 1/2" | 1 100 ft (68°F/ 20 °C), 800 ft (32°F/ 0 °C), 500 ft (14°F/ -10 °C) |
| | 3/8" | 1 900 ft (68°F/ 20 °C), 1 500 ft (32°F/ 0 °C), 900 ft (14°F/ -10 °C) |
| | 1/4" | 4 200 ft (68°F/ 20 °C), 3 300 ft (32°F/ 0 °C), 2 100 ft (14°F/ -10 °C) |
| Volume 24 oz | | 1,44 cu ft (68°F/ 20 °C), 1,12 cu ft (32°F/ 0 °C), 0,70 cu ft (14°F/ -10 °C) |
| Yield can 32 oz. | 1/2" | 1 400 ft (68°F/ 20 °C), 1 100 ft (32°F/ 0 °C), 700 ft (14°F/ -10 °C) |
| | 3/8" | 2 500 ft (68°F/ 20 °C), 2 000 ft (32°F/ 0 °C), 1 200 ft (14°F/ -10 °C) |
| | 1/4" | 5 600 ft (68°F/ 20 °C), 4 400 ft (32°F/ 0 °C), 2 800 ft (14°F/ -10 °C) |
| Volume 32 oz | | 1,93 cu ft (68°F/ 20 °C), 1,50 cu ft (32°F/ 0 °C), 0,94 cu ft (14°F/ -10 °C) |



TECHNICAL DATA SHEET

APPLICATION INSTRUCTION

PREPARATION - product flammable during dispensing. Wear eye protection and rubber or plastic gloves during the application. Use only in well ventilated area or wear approved respiratory equipment. Contact and application areas should be dry, clean, free of dust, oil, grease or any foreign objects, debris and contaminants that could interfere with proper adhesion. Clean and degrease surface with TYTAN™ Cleaner, acetone, isopropanol, ethanol (metals, glass) or detergent (plastics), and let it dry completely. Surfaces must be sound and in good condition. It is recommended to spray surfaces with water prior to applying foam to increase expansion and curing properties. Working temperature is 14°F/ -10°C to 86°F/ 30 °C (can temperature 32°F/ 0 °C). For best results and maximum yield apply at temperatures 60°F/ 15 °C to 95°F/35 °C. Use below 14°F/ -10 °C is not recommended. Shake the can vigorously for 30-45 seconds before attaching to recommended TYTAN Foam Gun and between uses. Remove protective cap, invert can and screw the can firmly onto the recommended TYTAN gun – do not over tighten.

APPLICATION - Keep the can upside down position during the application. Point gun in safe direction and slowly pull trigger to test dispense foam. Adjust knob on gun handle to get desired application flow. Fill cavities approx 50% to allow foam to expand after application. Cracks wider than 2" should be filled gradually in layers. Trim excess foam with sharp knife or serrated edge. Cured foam can be sanded, painted or stained. Cured foam discolors and loses stability and properties when exposed to UV light, paint or coat exposed foam for best results. Do not leave TYTAN Foam Gun attached if not in use for 15 minutes or longer.

CLEANING - Clean TYTAN Foam Gun thoroughly with TYTAN CLEANER immediately after use to prevent foam from hardening in gun. Uncured Foam - Clean immediately with TYTAN CLEANER or acetone. Cured Foam - if hardened on skin - use an industrial cleaner with pumice. Repeat process until foam is removed. Cured foam must be mechanically removed or allowed to wear off in time.

SHELF LIFE AND STORAGE

Expiry date printed on the bottom of each can. Store upright in cool and dry area at temperature 40°F/ 5°C to 86°F/ 30°C. Do not expose to open flame or temperatures above 120°F/ 50°C to avoid excessive pressure build up. Keep away from any source of heating and open fire. Keep out of the reach of children.

MODELS AVAILABLE

| TYTAN EXTREME CLIMATE FOAM | | | |
|----------------------------|--------------|-------------|-----------|
| Product code | Size | Packaging | Case Pack |
| 3823 | 24 Oz.(680g) | Aerosol Can | 12 |
| 5813 | 32 Oz.(910g) | Aerosol Can | 12 |



TECHNICAL DATA SHEET

SAFETY

Caution: container may burst if heated.

Safety: harmful contents under pressure. Contains flammable gas. Shut off all gas pilot lights, electrical igniters, burners and other sources of heat before and during use. Do not smoke or use matches, lighters while dispensing foam. do not place or store in a closed area such as a car. Use only in adequate ventilated areas. Avoid contact with skin or eyes. Wearing eyewear and gloves is recommended. Do not breathe vapor/spray. Do not incinerate or puncture can. Do not expose to direct sunlight or store at temperatures over 120°F/ 50 °C.

Keep out of reach of children.

First aid: in case of eye contact, flush immediately with water for 15 minutes and get medical help. If inhalation causes physical discomfort, remove to fresh air. If discomfort persists or any breathing difficulty occurs, get medical help. If swallowed, drink large quantities of water. Do not induce vomiting. Get physician assistance in all cases. Cured foam is not harmful to health.

Ingredients: polymeric diisocyanate, polyols, hydrocarbon gas mixture.

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