

THERM·O·BARRIER

Product Description

Therm-O-Barrier is a cellulose fibre based fire protective coating specifically formulated for application over sprayed polyurethane foam plastics (SPF) with a nominal density of 2.0 pounds per cubic foot (pcf). Upon spray application to interior foam surfaces on walls and ceilings, Therm-O-Barrier forms a well adhered, monolithic barrier against heat and fire and provides additional thermal performance (R-Value) to the building envelope.

Therm-O-Barrier is co-sprayed with Therm-O-Bond (water based adhesive) and does not require additional pretreatment of surfaces with a bonding agent or the addition of accelerators to improve yield and set characteristics. Therm-O-Barrier can be applied to the required thickness in a continuous uninterrupted operation. This results in an efficient, low cost operation that meets building code and insurance requirements.

In developing Therm-O-Barrier, Therm-O-Comfort utilized its experience and technology as a major producer of Type 1 and Type 2 cellulose fibre insulation products. Sales and technical service personnel are located in Ontario and can provide technical support to contractors, owners and specifiers anywhere in Canada.



Benefits

While specific requirements may differ from region to region, the use of nominal 2.0 pcf SPF for most building occupancies is permitted when they are protected by an approved thermal barrier. Therm-O-Barrier has been successfully fire-tested for performance, reliability, ease of application and low installed cost.

- **NO ADDITIONAL COST** - Both the thermal insulation and thermal barrier can be installed for approximately the same cost of applying only spray foam insulation. Therm-O-Barrier provides an RSI value (R value) equivalent to one inch of foam thus reducing the amount of SPF required to achieve the total thermal value.
- **Proven Fire Performance** - Therm-O-Barrier has successfully met the requirements for a Class B rating in accordance with CAN/ULC-S124-06 "Standard Method of Test for the Evaluation of Protective Coverings for Foamed Plastic". Therm-O-Barrier meets Canadian Building Code requirements for use as a thermal barrier over spray polyurethane foam insulation.
- **Minimal Investment** - High application rate without the need of accelerators or specialized equipment makes Therm-O-Barrier a faster alternative to other thermal barrier products with minimal capital costs.
- **Thermal and Sound Performance** - Therm-O-Barrier has exceptional thermal and acoustical properties. It meets building code requirements as a thermal insulation for buildings and provides an RSI thermal insulating value of 1.14 (R6.5) and noise reduction coefficient (NRC) of 0.75 (w/o tamping or coatings).
- **Damage Resistant** - Therm-O-Barrier dries to form a durable fibrous surface which resists damage and provides exceptional sound attenuation properties. It can be tamped to form a harder closed surface.

Physical Properties

- Thickness - 32.5 mm (1.5") (minimum)
- Density (ASTM E605) 76.0 kg/m³ (4.75 lb/ ft³)
- Cohesion/Adhesion (ASTM E736) > 100 psf
- Colour - Grey

Installation

Therm-O-Barrier is packaged in polyethylene bags for easy handling and storage. Therm-O-Bond adhesive is concentrated and must be diluted and applied at a ratio of 2.8 parts diluted adhesive to 1 part fibre. Therm-O-Barrier has been formulated for standard insulation machine application. Most commercially available insulation spray nozzles, tips and pumps can be used to apply the adhesive to the product.

Where desired, the natural sprayed texture of Therm-O-Barrier can be lightly tamped to form a semi-smooth, paintable surface. After drying out completely, Therm-O-Barrier may be painted with acrylic and other paints specially formulated for interior use over gypsum board. Thin latex modified surface coatings may also be applied to Therm-O-Barrier to increase surface hardness. All coatings must meet code requirements (e.g. surface burning characteristics) for exposed interior use.

Contact your Therm-O-Comfort representative for guidance prior to application of coatings to Therm-O-Barrier. Please note that the use of "waterproofing coatings" will not prevent water penetration and thus cannot be used.

Typical Application and Limits of Use

Therm-O-Barrier may be used to protect foam plastics and as thermal and acoustical building insulation in many types of buildings. Therm-O-Barrier is cellulose based and is designed for interior use only. Therm-O-Barrier should not be used for exterior applications or exposure to continuous unconditioned high humidity environments where condensation may occur. This product is limited to areas of use where service temperatures do not exceed 194°F (90°C).

Maintain building, electrical, gas and oil safety code clearances between the insulation and heat emitting devices, such as fuel burning appliances, chimney pipes, ducts and vents to these appliances (at least 50 mm) and recessed light fixtures (at least 75 mm) unless approved for insulation contact.

When handling or installing this product adequate dust protection should be worn such as a NIOSH 95 approved dust mask, gloves and eye protection.



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