



# THERMAL BARRIER

## 1. PRODUCT NAME

A/D THERMAL BARRIER

## 2. PRODUCT DESCRIPTION

A/D THERMAL BARRIER is spray-applied fire resistive thermal insulation.

### Basic Use:

A/D THERMAL BARRIER is intended for the protection of foam plastic insulation in accordance with requirements of the National Building Code of Canada.

### Composition and Materials:

A/D THERMAL BARRIER is a non-combustible material comprised of inorganic mineral wool, Portland cement and other proprietary ingredients. It does not contain asbestos. It is a single component factory-mixed product that is ready to use on site with just the addition of water.

### Packaging:

A/D THERMAL BARRIER is packaged 40-lbs. (18.14-kg) in polyethylene bags.

### Limitations:

Not recommended for non-ventilated spaces with high humidity such as potato storage barns.

## 3. APPLICATION

- A/D THERMAL BARRIER shall be applied only by approved applicators.
- Examine surfaces to ensure they are dry, clean and free from oil, grease, dirt, paint or other foreign matter that would impair bond.
- Deliver and store materials in a dry, protected area, off

ground in original sealed containers.

- Discard any materials that have come into contact with water prior to use.
- Type TC-55 adhesive shall be applied to foamed plastic surfaces in accordance with the ULC listing information prior to application of A/D Thermal Barrier.
- Apply A/D Thermal Barrier to the minimum thickness specified in the ULC listing information and commensurate with the required rating.
- Finished surfaces of the thermal barrier should be lightly over sprayed with water.
- Ambient air temperature and temperature of the foamed plastic substrate shall be not less than 5°C (40°F) during application and until the product is completely dry.

## 4. TECHNICAL DATA

### Ratings:

A/D THERMAL BARRIER is listed by ULC for 10, 15 and 20 minute thermal barrier ratings as follows:

Rating <sup>a</sup> , minutes	Minimum Thickness, mm
10 <sup>b</sup>	22
15	25
20	32

### Notes:

<sup>a</sup> ULC rating information is based on full-scale fire tests in accordance CAN/ULC-S101-M, Standard Method of Fire Endurance Tests of Building Construction Materials.

<sup>b</sup> Satisfies "classification B" as required in NBCC, 1995, clause 3.1.5.11.2) e).

A/D THERMAL BARRIER satisfies the requirements of Part 3 of the National Building Code of Canada, 1995, for the protection of foamed plastic insulation used in buildings required to be of noncombustible construction.

A/D THERMAL BARRIER has the following Surface Burning Characteristics based on ASTM E 84 "Standard Test Method for Surface Burning Characteristics of Building Materials".

Flame Spread - 15

Smoke Developed - 0

### Other Properties:

- Dry density: 10.3 pcf (165 kg/m<sup>3</sup>), optimum
- R-value: approx. 3.6 per inch at 10.3 pcf (165 kg/m<sup>3</sup>).
- Absorbs 75% of noise in the speech interference range that hits its surface.

**Finishes:** Normally the finished surface of A/D THERMAL BARRIER is left with a textured finish. This is the least expensive finish and has the best acoustic properties. A smoother board tamped finish can be provided at additional cost.

The finished surfaces can be sealed with "TC 55" sealer and/or an acrylic latex paint if required. Note: Paint may alter the surface burning characteristics of the product. Contact your representative for recommendations.

**Health and Safety:** To safely use this product, read and abide by the Material Safety Data Sheets (MSDS).

## 5. AVAILABILITY

A/D sales offices and technical representatives are located throughout Canada (see below).

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## 6. MAINTENANCE

No maintenance should be required. If product becomes damaged, clean surface of foamed plastic and then patch

and repair following application instructions as described above. Damage by other trades should be patched at the expense of trade causing damage.

## 7. TECHNICAL SERVICES

Contact nearest A/D office.

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## A/D FIRE PROTECTION SYSTEMS

**Head Office:** 420 Tapscott Rd., Scarborough, Ontario, M1B 1Y4  
Tel: 1(800) 263-4087 or (416) 292-2361 Fax: (416) 298-5887

**ISO9001**  
REGISTERED COMPANY

### Contact by Province

AB, BC, MB, ON, SK: Tel: (800) 263-4087, Fax: (416) 298-5887  
NB, NF, NS, PE, QC: Tel: (800) 914-6506, Fax: (450) 661-8776