

# THERM·O·SPRAY

## TYPE 2 PRODUCT DATA

### 1. PRODUCT DESCRIPTION

Therm-O-Spray (formerly Therm-O-Light Type 2) is a spray applied thermal and acoustical cellulose fibre insulation (CFI) manufactured from specially selected grades of recycled paper and paperboard products.

Therm-O-Spray is applied through the use of pneumatic blowing and spray equipment.

Therm-O-Spray can be used in new or existing buildings and is suitable for use in both above and below grade applications. It can be applied to any open vertical, horizontal or sloped surface (regardless of pitch) as well as any open cavity such as walls, floors, flat roofs and cathedral ceilings, which will be closed later.



Therm-O-Spray has a minimum recycled content of 85% consisting of pre and post consumer recycled paper and paperboard products. It is treated with a special blend of non-corrosive borate fire retardant additives, which also provides the product with a resistance to mould growth, wood decay and insect damage.

### 2. TECHNICAL INFORMATION

Standards:

Therm-O-Spray is manufactured in accordance with the following:

CAN/ULC-S703-01 "Standard for Cellulose Fibre Insulation for Buildings"

CCMC Technical Guide 07215.1 "Cellulose Fibre Insulation For Buildings".

ISO 9001:2000 certified quality management system.

#### Product Specifications:

Surface Burning Characteristics (CAN/ULC-S102)	< 25
Open Flammability (CAN/ULC-S703)	>0.120 W/cm <sup>2</sup>
Open Flammability Permanency (ULC-S703)	>0.120 W/cm <sup>2</sup>
Moisture Vapour Sorption (CAN/ULC-S703)	< 20%
Corrosiveness (CAN/ULC-S703)	Passed
Fungal Resistance (ASTM 1338)	Passed

#### Product Specifications Con't

Smoulder Resistance (CAN/ULC-S130)	< 15%
Separation of Chemicals (CAN/ULC-S703)	< 1.5%

#### Open Spaces (e.g. Attics)

Thermal Resistance (ASTM C518)	RSI = 25.5(m <sup>2</sup> • K/W)/m R = 3.7 (hr•ft <sup>2</sup> •F/Btu)/in
Design Density (CAN/ULC-S703)	23.2 kg/m <sup>3</sup> (1.45 lb/ft <sup>3</sup> )
Added Water (CAN/ULC-S703)	<20%
Settlement (CAN/ULC-S703)	< 5%

#### Closed Cavities (e.g. Walls)

Thermal Resistance (ASTM C518)	RSI = 25.5(m <sup>2</sup> • K/W)/m R = 3.7 (hr•ft <sup>2</sup> •F/Btu)/in
Design Density (CAN/ULC-S703)	24.0 kg/m <sup>3</sup> (1.50 lb/ft <sup>3</sup> )
Added Water (CAN/ULC-S703)	<20%

#### Exposed Surfaces (e.g. Commercial Spray-On)

Thermal Resistance (ASTM C518)	RSI = 25.5(m <sup>2</sup> • K/W)/m R = 3.7 (hr•ft <sup>2</sup> •F/Btu)/in
Design Density (ASTM E605)	39.3 kg/m <sup>3</sup> (2.45 lb/ft <sup>3</sup> )
Cohesion/Adhesion (ASTM E736)	> 5x

#### Acoustical Properties (General)

Noise Reduction Coefficient (ASTM C423)	0.75 @ 1"
Sound Transmission Class (ASTM E336)	Consult Manufacturer

#### Construction Specifications

Both CMS and NMS Construction Specifications are available for Therm-O-Spray Type 2 in accordance with the MasterFormat™ 2004 Edition 072129.

#### Registrations and Listings

CCMC Listing # 13306-L  
ISO Registration (TUV America Inc) # 951053090

#### Applicable Codes

When properly installed, Therm-O-Spray meets or exceeds all applicable thermal insulation material and installation requirements set out in all Canadian National and Provincial Energy and Building Codes.

### 3. INSTALLATION

In order to ensure proper thermal performance, Therm-O-Spray must be installed in accordance with Therm-O-Comfort's most recent installation instruction.

#### Applicable Guides and Standards

CIMA Technical Bulletin #3-- Standard Practice for Installation of Sprayed Cellulosic Wall Cavity Insulation.

CIMA Technical Bulletin #5 -- Guide for Installation of Cellulosic Fiber Stabilized Thermal Insulation

#### Precautions

**Health & Safety: Therm-O-Spray is safe and non-irritating alternative to man-made mineral fibre products. However, adequate precautions must still be taken when installing or handling any loose-fill product.**

**Ensure a NIOSH N95 approved dust mask is worn during the handling and installation process, as well as appropriate eye and skin protection (i.e. work clothes, gloves and safety glasses).**

**Heat Emitting Devices: Therm-O-Spray, as well as all other insulation products, should not be placed in**

**direct contact with heat sources such as chimney flues, electric motors or light fixtures.**

**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.**

**This product is not intended for use in areas with service temperatures exceeding 90°C (194°F).**

### 4. WARRANTY

Therm-O-Comfort warrants that Therm-O-Spray is manufactured to meet or exceed published specifications and retain its thermal performance for the normal life of the building. Please refer to limited product warranty certificate for more details. This warranty does not cover the installation of the product. Please contact your Applicator or Contractor for more details on their installation warranty.

