

# Spray Applied Thermal and Acoustic Insulation

## TC-417

(Divisions 07 21 00, 09 80 00)

### PRODUCT NAME

**TC-417** spray applied fibreglass insulation system.

### 1. MANUFACTURER

TC-417 is a two-component product manufactured by ThermaCoustic Industries International Limited. The components of TC-417 are supplied to trained, approved Applicators who complete on-site manufacturing during installation.

### 2. PRODUCT DESCRIPTION

#### A. Usage:

**TC-417** is a general-purpose system designed to meet a variety of thermal and acoustic needs in the industrial, commercial and multi-family construction sectors.

#### B. Materials:

**TC-417** is a two component system.

The components are:

- a) **Fine, white glass fibres containing at least 45% recycled raw material;**
- b) **A specifically formulated synthetic emulsion adhesive that is non-hazardous.**

These components are combined on the site to produce an inorganic, non-combustible, nontoxic, odourless and long-lasting bright white installation.

#### C. Applications:

When sprayed into place, **TC-417** forms a monolithic, somewhat resilient and flexible blanket that bonds easily to concrete, clean steel, aluminum, sealed wood, sealed gypsum board, rigid fibreglass and plastic insulation materials. It conforms closely to surface irregularities and virtually eliminates convective air circulation to the substrate.

#### D. Limitations:

**TC-417** is normally applied to any surface in a onepass application. If a thickness greater than those listed below is required, please contact

ThermaCoustic Industries for advice.

- a) Thickness on overhead surface without mechanical support is 125mm (5");
- b) Maximum thickness on vertical surface without mechanical support is 175mm (7");
- c) Adhesive must be kept from freezing;
- d) Do **not** apply **TC-417** at temperatures below 4°C (40°F) or when temperatures during curing time will fall below the limit unless heating of substrate and ambient air is supplied and both heat and adequate ventilation are maintained throughout the curing period.
- e) Store **TC-417** components in a cool, dry location and above ground level.

### 3. TECHNICAL

ASTM C-518: R = 4.17 /in; RSI= 29.32/m  
K = 0.24; I= 0.0346

CAN/ULC S-114: Non-combustible

ASTM E-136: Non-combustible

CAN/ULC-S102: Flame spread <25

ASTM E-84: Smoke development <50

ASTM C-423 90a: NRC = 1.00 (SO min2 in)

ISO 354: NRC = 0.95 (50 mm//2 in)

MIL-STD 810E: Fungal Resistance  
(Method 508.4) - No growth

ASTM D-736-00: Cohesive/adhesive force  
- Meets requirement

ASTM 859-93: Air erosion  
(Reapproved 2000) - Meets requirement



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