



Spray Applied Thermal and Acoustic Insulation

(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 35% 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, non-toxic, 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, wood, 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 one-pass application. If a thickness greater than those listed below is required, please contact ThermaCoustic Industries for advice.

- a) Maximum 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 DATA

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

CAN/ULC S-114: Non-combustible

ASTM E-136: Non-combustible

ASTM E-84: Flame spread ≤ 25
Smoke development ≤ 450

ASTM C-423 90a: NRC = 1.00 (50 mm/2 in)

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

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

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

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

Toxicity characteristics:
(Pittsburgh Protocol) - Meets New York City
requirement

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