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## TC-417-GP Thermal and Acoustic Solutions Spray Applied Insulation

### SECTION 07210

#### c) UNCONDITIONED OR MINIMALLY CONDITIONED BUILDINGS

Occasionally it is desirable to add some insulation to an unconditioned, or minimally conditioned, steel-roofed building. This is generally done to solve a condensation problem on the inside of the roof.

**TC-417 GP** is an ideal product to use for this purpose. However, before doing so, the **circumstances must be evaluated by a locally based HVAC engineer.**

It is necessary to determine what R (RSI) value of insulation applied to the roof will warm it up sufficiently to move the dew point from the inside to the outside surface of the panels. Doing this will eliminate the interior condensation.

#### **Note:**

If too much insulation is added to the underside of the roof, the condensation problem is exacerbated. When the ambient temperature drops sufficiently, the dew point will migrate inward into the insulation and condensation will form. The moisture will be retained within the insulation matrix, and the R (RSI) value will be degraded. Presence of the moisture over long periods can result in insulation fall out and damage to the roof structure.

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