Midwest Cold Storage

Application

228,816 broad feet of Foam-Control® PLUS+® 400 was used as an underslab insulation in a cold storage facility in Wisconsin Rapids, Wisconsin.

Project Details

The large Midwest Cold Storage building is designed as a transfer point for fruits, vegetables and other perishable products that must be refrigerated. The freezer units are cold enough to create a layer of ice on the ground beneath the slab. The freezer units run year round. As a result, there is no opportunity for the ice to ever melt. This creates a significantly higher risk of frost heave, a sub-surface ice accumulation that can cause structural failure of floor slabs.

ACH Foam Technologies’ Foam-Control® PLUS+® 400 was used as a solution to thermally insulate the cavity beneath the slab with two layers of insulation. Approximately 2,270 pieces of 4’ x 8’ sheets were used to produce an R-15 R-value and a compressive strength of 40 psi. Foam-Control® PLUS+® provides many benefits over extruded polystyrene (XPS). Foam-Control® PLUS+® provides more R-value at a lower cost, has a stable long-term R-value, has superior drying potential, and is more vapor permeable to help avoid moisture problems.

Below-Grade Insulation

Midwest Cold Storage
- Wisconsin Rapids, WI
- Summer 2011
- Foam-Control® PLUS+® 400
- 228,816 Board Feet

Design-Builder
Brickl Brothers