

Icynene[®]: A Green Product

In evaluating Icynene[®] as a “Green” product, we have compared Icynene[®] properties with defining criteria from Environmental Building News, a leading newsletter on environmentally responsible design and construction, and GreenSpec product standards. Icynene[®] falls within many of the defining categories and criteria that determine the environmental-soundness of a product.

Criteria

1. Building components that reduce heating and cooling loads.
2. Products that reduce material use.
3. Impact on the environment.
4. Products that do not release significant pollutants into the building.
5. Products that block the introduction, development, or spread of indoor contaminants.
6. Products that reduce the impact of renovations.
7. Products with recycled content.
8. Embedded energy costs.

Icynene[®]

1. Icynene[®], because it is an effective insulation and an air barrier, reduces energy consumption up to 30% - 50% versus other insulation.
2. Installing Icynene[®] allows for:
 - downsizing of the HVAC equipment
 - elimination of electrical box gaskets
 - elimination of air barrier materials
 - reduction in tape, caulk, and glue
3. Icynene[®] contains no CFCs, no HCFCs, no HFAs, no formaldehyde, nor volatile organic compounds.
4. Independent tests have confirmed that Icynene[®] emits no harmful emissions. These tests also confirm that there are no emissions of any kind from Icynene[®] after 30 days.
5. Icynene[®], by air sealing the building envelope, controls condensation caused by infiltrating moist/humid air and the resulting molds and mildews. The air seal also prevents outside pollution, dust, and allergens from entering the building.
6. The pour fill variation of The Icynene Insulation System[®] can be installed in the wall cavities of older homes, that contain no insulation, via small 1/2” holes drilled in the wall. There is no need to rip out existing plaster or sheetrock.
7. Icynene[®] is not made from recycled material.
8. Like all insulation, Icynene[®] requires energy for its creation and installation. It is an organic by-product of the petroleum distillation process but does not require any additional heating, melting, extruding, shredding, or manufacturing processes. The energy required to transport Icynene[®] is relatively low. The insulation of a 2,000 sq.ft. home only requires the transport of 2 drums of material (55 gallons each). One transport truck can deliver enough Icynene[®] insulation for 38 homes of 2,000 sq.ft.