

NANOTECHNOLOGY







Product Used

Spaceloft® 9251

Aerogel Dramatically Improves Thermal Comfort of House Floor

Flexible aerogel blanket installed in half hour versus full day for polystyrene

Distribution Partner

Aktarus Group (www.aktarusgroup.com)

Installation Partner

Gruppo Vega (www.gruppovega.com)

Challenges

- Insulate a new floor being installed in a residential house. The existing floor had been laid down directly on the ground without any insulation.
- The new floor needed to improve the thermal comfort in the house and reduce heating costs.
- There was not much space to insulate.

Aerogel Solution

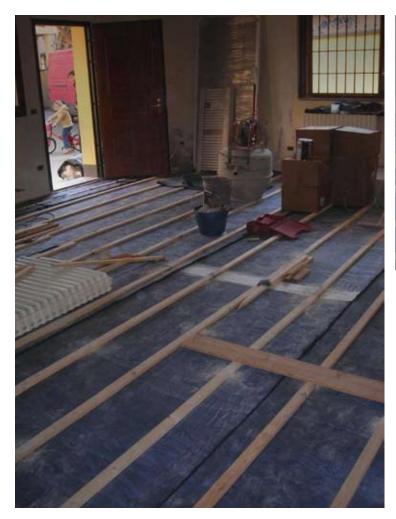
- An aerogel solution of 9 mm Spaceloft® 9251 was chosen for its outstanding insulation value in a thin profile.
- The use of conventional insulation materials would have required altering or changing all doors and frames.

Benefits

- Spaceloft 9251 was installed on the entire floor in 30 minutes. Polystyrene foam requires a full day. The time savings reduced labor costs and allowed the project to remain on schedule.
- The owner did not have to change any doors and frames, saving substantial time and money.
- Spaceloft is easy to unwind on the floor, flexible but robust, and easily cut like a carpet.
- The thin Spaceloft saved over 3 cm of height in the room.

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Floor





It took just 30 minutes to install Spaceloft 9251 throughout this entire room. Polystyrene foam takes a full day to install. The aerogel insulation dramatically improved the thermal comfort of the floor.