

HUNTSMAN

BUILDING SOLUTIONS

December 14th, 2020

Object : Under Slab Insulation Projects – Heatlok Soya HFO

Heatlok Soya HFO is used for under slab insulation in numerous projects, both residential and commercial. The product's seamless continuity, installation quality, field resistance, durability, and its insulating, air barrier, vapour barrier and gas barrier properties, make it a product of choice for this application. Heatlok Soya HFO provides perfect airtight protection against soil gases.

Insulating a slab-on-grade is often a lengthy process, requiring substantial manpower and numerous products, while often yielding inadequate results. Thus, Spray Polyurethane Foam (SPF) is becoming a choice alternative because its installation is advantageous in terms of speed, cost and quality. Heatlok Soya HFO recently replaced traditional under slab insulation systems due to its quick application and its cost savings to professionals. In a single application, Heatlok Soya HFO provides superior insulation, a perfect air barrier and a vapour barrier. It also prevents soil gases, mainly radon, from entering the building. In short, the occupants are warm, comfortable and protected from radon.



The details of sealing perforations often cause delays on job sites. Plus, the quality of the details is often imperfect. With Heatlok Soya HFO, sealing these details is perfect and its speed of execution is unrivaled by any other product.

With an R value of R-6/inch, Heatlok Soya HFO, applied in a 2" (50 mm) thickness, provides \pm R-12 insulation under the entire surface of the slab, exceeding Building Code requirements. The product is sprayed directly on the crushed stone and provides continuous insulation, with no seams.

Heatlok Soya HFO also has very good compressive strength (24.8 psi). During construction, workers can move about with wheelbarrows and equipment without damaging the Heatlok Soya HFO; it will not crack or break. All of the gravel can be sprayed in a single step. Application is very quick and generates no waste. No scraps, no wasted materials.

870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation

Price-quality ratio

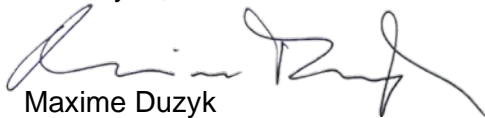
Another advantage of under slab insulation in one step is the cost saving. Application is very quick and the product cost will be lower per square foot, since the applicator's travel time and prep are offset by the volume to install, compared with a conventional insulation system that involves multiple steps, several materials, plus more labour, which leaves more room for error. If the project requires other applications of sprayed-on polyurethane foam, for instance on the outside wall, the cost per square foot will be even less since the volume is greater. The installation quality consisting of panel + polyethylene + sealant + glue and tape is directly affected by the quality of the workmanship and the protection of the works before and during the slab pouring. In just one step with Heatlok Soya HFO, you get a durable and perfectly sealed structural envelope during and after the work. All plumbing pipes and vents, sumps and drains in the slab and walls are sealed in a single operation, without any complication regarding compatibility of materials. Adhesion to the concrete wall is perfect; there is no possible air space for condensation and mold to penetrate. Heatlok Soya HFO delivers an insulation and air barrier system, with vapour barrier, all in one step, quickly and effectively.

Resistance to radon gas

Heatlok Soya HFO has been tested for its resistance to radon gas by recognized independent laboratories. Tests compared Heatlok Soya HFO's performance with that of 6-mil polyethylene (CAN-CGSB 51.34-M). The ISO/DIS 11665 test method quantifies radon gas migration through an opaque material (joint free). Results showed that 1" (25.4 mm) of Heatlok Soya HFO is, at minimum, 35 times more resistant to radon migration than 6-mil polyethylene. The product also tested as resistant to methane. Thus, Heatlok Soya HFO offers complete protection against the infiltration of soil gases.

For any further information, please don't hesitate to contact us.

Thank you,



Maxime Duzyk
Director of Building Science and Engineering

Commercial projects

Many commercial projects such as fire stations, warehouses, commercial buildings, freezer and industrial refrigerators, and many more, are usually insulated with Heatlok Soya HFO product.

Fire station



Warehouse



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation

Warehouse



Commercial, institutional and multi-residential buildings



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation

Aquatic Center



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation

Residential projects

Many residential projects have been insulated with spray foam for over 30 years.

Garage



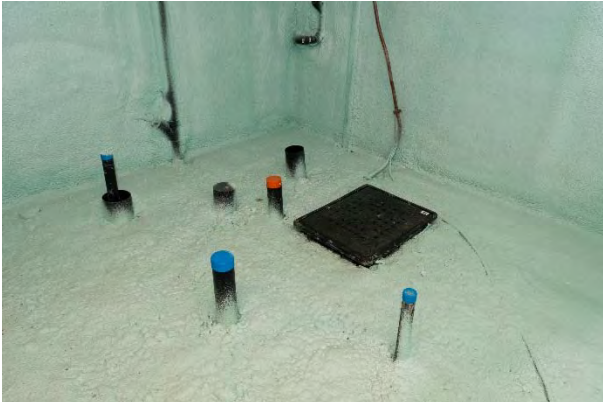
Basement – Heated floor



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation

Slab - Residential



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation



870 Curé Boivin, Boisbriand, Quebec, Canada J7G 2A7
Tel: 450.437.0123 866.437.0223
www.huntsmanbuildingsolutions.com

A business unit of Huntsman Corporation