rFOIL® Benefits:

- Reduces Radiant Heat Loss through Floors
- High-Strength, Multi-Layer Vapor and Radon Barrier
- Cost-Effective Alternative to Rigid Foam Insulation
- Improves Efficiency of In-Floor Radiant Heating Systems
- Reduces Slab Reaction Time at System Startup
- Saves Energy Usage and Utility Costs
- Easy to Form around Obstructions
- Installs Easily Over any Grade
- Withstands Job Site Traffic

rFOIL® Applications:

- Insulating Under Concrete Slabs
- Beneath Concrete Over-Pours
- Edge-Slabs and Expansion Joints

rFOIL® Standard Concrete Underpad are an outstanding reflective insulation and puncture-resistant vapor barrier. They are composed of a double layer of high-strength polyethylene bubbles sandwiched between one layer of metalized foil, and a layer of clear polyethylene.

rFOIL® Standard Concrete Underpad provides exceptional thermal value and a strong, permanent vapor and radon barrier. They are cost-effective alternative to rigid foam insulation, and are always installed with the clear side facing upwards.
CONCRETE UNDERPAD
(4320 Series)

Reflective Metalized Foil Facing
(installed facing down)
- Reduces Radiant Heat Loss
- Redirects Radiant Heat
  Energy Back to Living Area
- Saves Energy Usage and Lowers Heating Costs
- Extends Life of Heating System
- Faster Reaction Time for Radiant Floor Heating

Clear Polyethylene Facing
- Unaffected by Lime and other Corrosive Chemicals, often Found in Concrete.

Multi-Layer Bubble Core
(8.4 mil)
- Provides Continuous Thermal Break below the Slab
- Keeps underground moisture away from slab
- Durable and Long-Lasting Polyethylene
- Strong Puncture Resistance and Tear Strength
- Outstanding Vapor and Radon Barrier
- Can also Insulate the Edge-Slab and Outside of Foundation

Lightweight, Flexible Materials
- Just Unroll, Overlap, and Tape the Seams
- Easy to Cut and Configure around Obstructions
- Ideal for Edge-Slab Insulation and Expansion Joint (Easily Folds Upward at Perimeter Footing)

MORE BENEFITS
- Warmer, More Comfortable Floors
- Conforms Easily to Uneven Grades
- Strongly Bonded to Resist Delamination
- Sealed Seams Provide a Consistent Insulation

PRODUCT SIZES
- Configurations: Square Edge
- Width: 48” - Length: 125’

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Physical Properties</th>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOMINAL GAUGE</td>
<td>ASTM D751</td>
<td>8.4 mil</td>
</tr>
<tr>
<td>FIRE RATING</td>
<td>ASTM E84-09</td>
<td>CLASS 1 / CLASS A</td>
</tr>
<tr>
<td>EMISSIVITY</td>
<td>ASTM C1371-04A</td>
<td>0.04</td>
</tr>
<tr>
<td>REFLECTIVITY</td>
<td>ASTM E903</td>
<td>0.96</td>
</tr>
<tr>
<td>WATER VAPOR PERMEABILITY</td>
<td>ASTM E96</td>
<td>0.42 Perms</td>
</tr>
<tr>
<td>RESISTANCE TO FUNGI &amp; BACTERIA</td>
<td>ASTM C1149</td>
<td>DOES NOT PROMOTE GROWTH</td>
</tr>
<tr>
<td>PLIABILITY</td>
<td>ASTM C1224-03</td>
<td>NO CRACKING</td>
</tr>
<tr>
<td>BLEEDING AND DELAMINATION</td>
<td>ASTM C1224-03</td>
<td>NO BLEEDING OR DELAMINATION</td>
</tr>
<tr>
<td>CORROSIVENESS</td>
<td>ASTM D3310-00</td>
<td>Passes</td>
</tr>
<tr>
<td>COMPRESSION</td>
<td>CAN/CGSB 4.2</td>
<td>70 PSI</td>
</tr>
<tr>
<td>FIRE RATING - FULL ROOM BURN</td>
<td>NFPA 286</td>
<td>Passes</td>
</tr>
</tbody>
</table>

Warranty, Specific Applications and Installation Guides can be found at www.rfoil.com

09/17