



# FSU-410 Floating Sound Underlayment

TECHNICAL DATA

**FSU-410 Floating Sound Control Underlayment** is a 2mm thick, rolled sound reduction underlayment specifically designed for indoor use under resilient flooring products, and can be installed directly over existing floor coverings where other adhesives cannot, such as VAT, Sheet Vinyl, Linoleum and Hardwood Flooring. It is a loose lay product that does not require adhesive to be installed and may be used with floating and glue down resilient floors. The material is non-absorbent and mostly impermeable, allowing it to resist moisture damage, mold and mildew growth.

<b>Nominal Dimensions</b>	3.5' x 35' x 2 mm (28 lbs. per Roll)
<b>Coverage</b>	122.5 sq. ft. per Roll
<b>Density</b>	28 lb./ft <sup>3</sup>
<b>Tensile Strength</b>	> 750 KPa
<b>Compression @ 100 psi</b>	< 24%
<b>Recovery</b>	> 90%
<b>Shore Hardness</b>	50 - 55
<b>ASTM E96 - Permeance Rating</b>	< 0.3 Perms
<b>ASTM F2170 - RH Limit</b>	90%, <i>in situ</i>
<b>ASTM F1869 - MVER Limit</b>	8 lbs. / 1000 sq. ft. / 24 hours
<b>ASTM F710 - pH Limit</b>	≤ 12
<b>Acoustical Performance - 6 Inch Concrete Slab</b>	
<b>ASTM F2179 - Effectiveness of Floor on Impact Sound Transmission</b>	ΔIIC 21
<b>Acoustical Performance - 8 Inch Concrete Slab</b>	
<b>ASTM F2179 - Effectiveness of Floor on Impact Sound Transmission</b>	ΔIIC 24
<b>Service &amp; Storage Temperature</b>	60° - 85° F
<b>Application Method</b>	Floating
<b>Seam Sealing Method</b>	Tightly Butted and Taped with 3M 3903 6.5 mil Vinyl Duct Tape, Tyvek House Wrap Tape or equivalent underlayment seam tape
<b>Application Methods for Flooring</b>	Floating Full Glue (Treat FSU-410 as Non-Porous, Non-Absorptive)
<b>Attributes &amp; Certifications</b>	Contributes to LEED v4/4.1 FloorScore Certification
<i>The following information is provided as general guidance, always refer to the current installation information on the product website for the resilient flooring being installed for complete information.</i>	
<b>Approved Flooring Products</b>	LVT/LVP
<b>Approved Substrates &amp; Surfaces</b>	Concrete above, on, or below grade; properly prepared for moisture sensitive resilient flooring in place a minimum of 45 days APA rated plywood underlayment Properly prepared Portland cement based patches & underlayments Properly prepared Gypsum cement based underlayments



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## Approved Substrates & Surfaces...

Properly prepared VCT, VAT, Quartz Tile, Solid Vinyl Tile, Vinyl Sheet Goods

Properly prepared Ceramic Tiles

Properly prepared Stone & Terrazzo Tiles

Properly prepared Steel & Aluminum

Epoxy Mitigation & Sealers (100% solid and fully cured)

Stained concrete that is sound, smooth and free of waxes, cleaners and any other bond inhibiting substances

Radiant heated sub-floors

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## Site Requirements

During acclimation, the site must be fully enclosed, weather tight, and material must be in the installation area with the HVAC system functional and operating at desired service temperatures for a period of 48 hours prior. It is recommended to maintain an ambient relative humidity between 40% and 60% for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.

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## Substrate Requirements

All substrates must be prepared according to the information contained within the product installation instructions.

Concrete substrates, whether on-grade and/or below grade must have an intact and effective moisture vapor barrier which meets the current requirements of ASTM E1745.

Substrates must be clean, smooth, permanently dry, flat, and structurally sound.

Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material or foreign matter.

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## Product Installation

Ensure substrate is prepared appropriately to receive the underlayment.

Unroll FSU-410 perpendicular to the intended direction of the flooring material planks or tiles.

Tightly butt seams and apply approved tape to treat the seam.

Ensure to honor the perimeter gap according to the Perimeter Isolation section below.

When installing a Floating Floor over the FSU-410, ensure the "shiny" side of the material is facing up towards the flooring being installed.

When installing a Glue Down Floor over the FSU-410, ensure the "shiny" side of the material is facing down towards the substrate. Select appropriate adhesive for use on Non-Porous (Non-Absorptive) surface.

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## Perimeter Isolation

In order to preserve the sound reduction properties of the FSU-410, finished flooring cannot make direct contact with the perimeter wall or any vertical surface attached to it, such as electrical boxes, heating ducts, columns and pipes or rigid baseboards, moldings, trim and accessories.



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To isolate the perimeter, leave a 1/4" gap between the finished flooring and all vertical surfaces and a 1/8" gap between the finished flooring and rigid baseboards, moldings, trim and accessories. Seal all gaps with a permanently flexible acoustical grade caulk, such as the Color Rite sealant/caulk. Ensure caulk is clear, colored or paintable.

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**Disposal**

Disposal in accordance with local, state and federal regulations.  
Empty packaging is recyclable.

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**Product Warranty**

10 Year Warranty

*See product warranty for full details regarding bond warranty, limitations, and warranty coverage.*

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**Technical Support**

[solutions@rhctechnical.com](mailto:solutions@rhctechnical.com)

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**Product Support**

[solutions@rhctechnical.com](mailto:solutions@rhctechnical.com)

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**Technical Documentation**

[www.excelsiorproducts.net](http://www.excelsiorproducts.net)