



FSU-410 Floating Sound Underlayment

TECHNICAL DATA

FSU-410 Floating Sound Control Underlayment is a rolled resilient acoustic underlayment made of agglomerated cork and recycled EVA foam with PU (polyurethane) elastomer bonding agent for impact noise insulation for wood-based or resilient floors.

Nominal Dimensions	3.5' x 35' x 2 mm (28 lbs. per Roll)
Coverage	122.5 sq. ft. per Roll
Density	20-27 lb./ft ³
Tensile Strength	> 550 KPa
Compression @ 0.7 Mpa	20-45%
Recovery after 0.7 Mpa	> 70%
Vapor Barrier	Yes
ASTM E96 - Permeance Rating	< 0.3 Perms
ASTM F2170 - RH Limit	90%, <i>in situ</i>
ASTM F1869 - MVER Limit	8 lbs. / 1000 sq. ft. / 24 hours
ASTM F710 - pH Limit	≤ 12
Acoustical Performance - 6 Inch Concrete Slab	
ASTM F2179 - Effectiveness of Floor on Impact Sound Transmission	ΔIIC 21
Acoustical Performance - 8 Inch Concrete Slab	
ASTM F2179 - Effectiveness of Floor on Impact Sound Transmission	ΔIIC 24
Service & Storage Temperature	60° - 85° F
Application Method	Floating
Seam Sealing Method	Tightly Butted and Taped with 3M 3903 6.5 mil Vinyl Duct Tape, Tyvek House Wrap Tape or equivalent underlayment seam tape
Application Methods for Flooring	Floating
	Full Glue (Treat FSU-410 as Non-Porous, Non-Absorptive)

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.

Approved Flooring Products	LVT/LVP
Approved Substrates & Surfaces	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
	Properly prepared VCT, VAT, Quartz Tile, Solid Vinyl Tile, Vinyl Sheet Goods
	Properly prepared Ceramic Tiles
	Properly prepared Stone & Terrazzo Tiles



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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

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.

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.

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.

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.

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.

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.

Technical Support

solutions@rhctechnical.com

Product Support

solutions@rhctechnical.com

Technical Documentation

www.excelsiorproducts.net