

SOUNDGARD® LITE

A VERSATILE UNDERLAYMENT FOR SETTING TILE AND STONE

PRODUCT DESCRIPTION

SoundGard® Lite is a versatile mat underlayment for setting tile and stone over any acceptable subfloor. SoundGard Lite is so fast and easy to install because it is up to 25 times lighter than 1/4" (6 mm) backerboard, cuts easily with a utility knife, doesn't require any nails or screws, and comes in a peel & stick version.

USES

The mat was specially designed so that the mortar locks in, creating a bonded crack prevention system for subfloor movement up to 1/4" (6 mm). This bonded system will withstand repeated stress and still maintain its tenacious bond. It is a superior alternative to cork underlayments because it is mold and mildew resistant and will not rot, shrink, or absorb water. SoundGard Lite offers high and credible impact sound reduction. Use SoundGard Lite with other Custom® materials to qualify for up to a lifetime warranty. Protected by MoldGard™ Technology to resist mold and mildew growth.

USES – TILE TYPES

- Ceramic tile, all types including impervious porcelain
- Natural stone
- Precast terrazzo tile

AREAS OF USE

- Interior and exterior applications
- Concrete, mortar beds, masonry
- Lightweight concrete and/or air entrained concrete
- Primed gypsum underlayment (minimum 2000 PSI cured)
- Post-tension concrete
- Exterior Grade Plywood
- Primed OSB
- Exterior decks
- Ceramic tile
- Resilient flooring
- Cutback adhesive
- Radiant heating systems
- 3 mm and 5 mm light commercial, 12 mm residential

- Set tile and stone over any acceptable subfloor
- Up to 4 times faster to install than 1/4" backerboard – optional peel & stick version
- Up to 25 times lighter than 1/4" backerboard
- Cuts easily with a utility knife
- Mortar locks in to form a bonded crack prevention system
- No mechanical fasteners or tape needed
- High and reliable impact sound reduction
- Eligible for up to a lifetime warranty
- Protected by MoldGard™ Technology

LIMITATIONS

- Do not bond tile directly to hardwood, Luan plywood, particle board, parquet, cushion or sponge-back vinyl flooring, metal, fiberglass or plastic.
- Do not apply at temperatures below 50° F (10° C).
- Do not use as a wear surface. Mat must be covered with tile or wood flooring.
- Not for controlling vertical movement cracks or cracks greater than 1/4" (6 mm).
- When setting dimensional stone larger than 12" x 12" (30 x 30 cm) contact Technical Services for recommendations regarding subfloor deflection requirements.

SURFACE PREPARATION

General Surface Preparation:

Surfaces must be structurally sound, clean, dry and free from grease, oil, dirt, curing compounds, sealers, adhesives or any other contaminants that would prevent a good bond. Glossy or painted surfaces must be sanded, stripped and cleaned of waxes, dirt or any contaminants.

Cementitious Surfaces:

Concrete must be fully cured and accept water penetration. Test by sprinkling water on various areas of the substrate. If water penetrates, then a good bond can be achieved. If water beads, surface contaminants are present and loss of adhesion may occur. The contaminants should be removed before installation. Concrete must be free of efflorescence and not subject to hydrostatic pressure. Can be used over exterior concrete where moisture (vapor transmission) never exceeds a reading above 12 lbs. (5.4 kg). Concrete slabs should have a broomed or brushed finish to enhance the bond. Smooth concrete slabs must be roughened to ensure a good bond.

Gypsum Substrates:

Gypsum substrates must have a PSI greater than 2000 and must first be primed or sealed per manufacturer's instructions. When using thin-set applied SoundGard Lite, all gypsum substrates must be coated with RedGard® Waterproofing and Crack Prevention Membrane or Custom® 9240 Waterproofing and Anti-Fracture Membrane. Interior dry areas must be primed with Peel & Stick Primer where peel & stick SoundGard Lite is used.



Wood Substrates:

Plywood flooring including those under resilient flooring must be structurally sound, built to industry standards, and deflection should not exceed L/360.

Detailed wood subfloor minimum requirements as follows:

ITEM CODE	16" o.j. (40 cm)	19.2" o.j. (48.7 cm)	24" o.j. (61 cm)
3mm	3/4" (19 mm)	3/4" + 3/8" (19 + 9.5 mm)	3/4" + 3/8" (19 + 9.5 mm)
3mm PSA	5/8" + 3/8" (15.8 + 9.5 mm)	3/4" + 3/8" (19 + 9.5 mm)	3/4" + 3/8" (19 + 9.5 mm)
5mm	5/8" (15.8 mm)	3/4" (19 + 9.5 mm)	3/4" + 3/8" (19 + 9.5 mm)
5mm PSA	5/8" (15.8 mm)	3/4" (19 mm)	3/4" + 3/8" (19 + 9.5 mm)
12mm	5/8" (15.8 mm)	3/4" (19 mm)	3/4" + 3/8" (19 + 9.5 mm)

PSA=Peel & Stick Application

Existing Ceramic Tile, Resilient Flooring or Plastic Laminates:

Resilient flooring or plastic laminates must be well bonded, clean and free of all contaminants. Roughen the surface by sanding or scarifying, rinse and allow to dry. Do not sand flooring containing asbestos. For existing well-bonded ceramic tile, mechanically abrade with carborundum stone. Rinse and allow to dry. When sanding we recommend the use of an approved respirator.

Bonding Materials – Non Peel & Stick Application:

SoundGard Lite can be bonded with a Custom® polymer-modified mortar meeting ANSI A118.4 or A118.11. Apply with a 3/16" x 1/4" (5 x 6 mm) V-notch trowel. Apply only enough mortar as can be covered with SoundGard Lite within 20 - 30 minutes. As a second alternative, OmniGrip® Maximum Strength Adhesive or ReliaBond® Ceramic Tile Adhesive can be used to bond SoundGard Lite to the substrate.

Bonding Materials – Peel & Stick Application:

For proper adhesion and optimal bond, prime the substrate with Custom's Peel & Stick Primer.

Cutback Adhesive over Concrete:

Adhesive layers must be removed as they reduce mortar bond strength to cement surfaces. Use extreme caution as adhesives may contain asbestos fibers. Do not sand or grind adhesive residue, as harmful dust may result. Never use adhesive removers or solvents, as they soften the adhesive and may cause it to penetrate into the concrete. Adhesive residue must be wet-scraped to the finished surface of the concrete, leaving only the transparent staining from the glue. Do a test bond area first, to determine desirable results. Refer to the RFCI Pamphlet, "Recommended Work Practices for Removal of Resilient Floor Coverings" for further information.

APPLICATION

Basic Non Peel & Stick Application:

Unroll SoundGard Lite laying out the material to use your cuts efficiently. Cut each roll to the required length. Lay SoundGard Lite perpendicular to the subsequent installation direction of the back half way. Apply a Custom bonding material listed above. Embed SoundGard Lite into the wet bonding material. Do not allow the material to "flop" into place, as this may cause air entrapment. Immediately roll the mat using a 30 – 50 lb. (13 – 26 kg) roller, or use a hand roller applying 30 – 50 lbs. (13 – 26 kg) of pressure, to ensure proper adhesive transfer. Overlap each roll of the roller 50% of the previous pass. Roll the width first, then the length. Fold the second half of the roll

back over the first half of the material. Spread the adhesive at right angles to the seams in order to prevent the adhesive from oozing up through the seam. Ensure the lengthwise edge of the material is aligned exactly with the neighboring section. Edges must contact but not overlap. Repeat procedure for the next section of SoundGard Lite.

Basic Peel & Stick Application:

First apply Custom's Peel & Stick Primer with a paint brush, short nap roller, or a soft push broom. Apply an even coat (5 - 10 mils) and allow to dry until tacky to the touch, about 30 - 45 minutes. When the primer does not transfer to your finger, the surface is ready for application. Unroll the mat while the release sheet is still attached and position it over the area to be treated and cut to appropriate length. Roll up half of the cut mat leaving the other half still in position. Cut release sheet from the rolled up portion and pull it towards you exposing and unrolling the self-stick portion of the mat. Re-roll the unrolled portion of the mat and follow the same procedure. Immediately roll the mat using a 30 – 50 lb. (13 – 26 kg) roller, or use a hand roller applying 30 – 50 lbs. (13 – 26 kg) of pressure, to ensure proper adhesive transfer. Air pockets and wrinkles should be slit and smoothed with a roller or the flat side of a trowel. Align subsequent sheets and butt join the seams tightly but do not overlap them.

Sound Control Application:

Before application, first cut 3" (7.6 cm) wide strips of SoundGard Lite and bond them (using a bonding material above) to the wall perimeter of the entire subfloor, as well as around the perimeter of any protrusions, in order to isolate or break the vibration transmission path between the floor and the wall. Assume that the walls you are butting up against are not square. Using a chalk line, create a starting point for an edge of the material to follow. Trim the ends of each section to exact dimensions to fit the surface area to be covered (e.g., joints with walls, etc.).

Installation of Baseboard/Covebase:

If a covebase or baseboard is required, install it after the finished floor has been installed. After the finished floor is installed, trim the excess perimeter isolation strip around the entire perimeter of the finished floor. Nail the covebase or baseboard to the wall above the perimeter isolation strip. To isolate or break the vibration transmission path between floor and wall, the baseboard must not touch the finished floor. Adhere the cover to the wall above the finished floor. Toe gap between the floor and the cover must be caulked, not grouted. Grout will allow vibration to flank through the walls.

For a Waterproofing System:

Option #1 (non peel & stick version only) – Waterproof subfloor using RedGard® Waterproofing and Crack Prevention Membrane or Custom® 9240 Waterproofing and Anti-Fracture Membrane as per package instructions. Then bond SoundGard Lite to subfloor as per general application instructions.

Option #2 (any version) – Bond SoundGard Lite as per general application instructions. Then apply first coat of RedGard to top of SoundGard Lite, pressing in the RedGard with a flat trowel. Allow first coat to dry. Then apply generous second coat of RedGard. Allow to dry, check for voids, fill voids if necessary, and begin setting tile.

TILE INSTALLATION

Apply tile with a Custom polymer-modified mortar meeting ANSI A118.4 or A118.11 standards.

ALTERNATE USAGE

Floating Floor Systems (Laminate or Engineered Wood):

SoundGard Lite is approved for use under floating floor systems. Follow instructions above for bonding SoundGard Lite to subfloor, then follow floor manufacturer's instructions for installation of the floor.

Hardwood:

SoundGard Lite is approved for use under hardwood floor systems. After bonding SoundGard Lite to the subfloor (see basic instructions):

1) Consult with the wood adhesive manufacturer for compatibility with SoundGard Lite.

or

2) Apply a full, minimum 1/16" (1.6 mm) skimcoat of either Custom's Skim Coat & Patch or SpeedFinish™ Patching & Finishing Compound to the top. Allow the skimcoat to cure, then bond the hardwood to the cementitious surface following manufacturer's instructions.

CLEAN-UP

Clean tools and hands with soap and water.

TECHNICAL DATA

	SOUNDGARD LITE 3	SOUNDGARD LITE 5	SOUNDGARD LITE 12
Underlayment thickness	3 mm	5 mm	12 mm
Peel & stick available	Yes	Yes	No
Roll dimensions	4' x 100' (1.2 M x 30.5 M)	4' x 75' (1.2 M x 22.9 M)	4' x 30' (1.2 M x 9.14 M)
Roll weight per sq. ft.	<.1	<.1	.2
Roll weight	21.3 lbs.	25.4 lbs.	25
Roll diameter	13.5" (34.3 cm)	15" (38 cm)	15.5" (39.4 cm)
TCA Robinson test	Light commercial	Light commercial	Residential
R value	.8	1.5	3.75
Water absorption ASTM C272	.008 g/cm ³	.008 g/cm ³	.008 g/cm ³
ΔIIC	16	20	23

ORDERING INFORMATION

ITEM CODE	SIZE	PEEL & STICK BACKING	PACKAGE
SGL3	4' x 100' (1.2 M x 30.5 M)	No	Roll
SGL3P	4' x 100' (1.2 M x 30.5 M)	Yes	Roll
SGL5	4' x 75' (1.2 M x 22.9 M)	No	Roll
SGL5P	4' x 75' (1.2 M x 22.9 M)	Yes	Roll
SGL12	4' x 30' (1.2 M x 9.14 M)	No	Roll



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