

EASYMAT® TILE & STONE UNDERLAYMENT

1. Product Name

EasyMat® Tile & Stone Underlayment

2. Manufacturer

Custom Building Products
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3. Product Description

EasyMat is a versatile mat underlayment for setting tile and stone over any acceptable subfloor. EasyMat 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.

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 will not rot, shrink, or absorb water.

EasyMat has SoundGard® Technology and therefore offers high and credible impact sound reduction. Use EasyMat with other Custom® materials to qualify for a lifetime warranty.

EasyMat can be used with the following tile types:

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

EasyMat can be used in the following areas:

- 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



COMPOSITION & MATERIALS

Polypropylene foam spheres bonded together with the use of Polyurethane Adhesive in sheet format.

SIZES

- 3 mm, 5 mm and 12 mm

BENEFITS

- Set tile and stone over any acceptable subfloor
- Up to 4 times faster to install than 1/4" (6 mm) backerboard — optional peel & stick version
- Up to 25 times lighter than 1/4" (6 mm) 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

LIMITATIONS

- Do not bond tile directly to hardwood, lauan 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.



4. Technical Data

APPLICABLE STANDARDS

American National Standards Institute (ANSI) — ANSI A108.5, A108.10, A108.17 of the American National Standards for the Installation of Ceramic Tile

ASTM International (ASTM)

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2-in. or (50-mm) Cube Specimens)
- ASTM C531 Standard Test Method for Linear Shrinkage
- ASTM C580 Standard Test method for Flexural Strength

Resilient Floor Covering Institute (RFCI) — Recommended Work Practices for Removal of Resilient Floor Coverings

Tile Council of North America (TCNA) — TCNA Handbook for Ceramic Tile Installation, TCNA Method EJ171

TECHNICAL PROPERTIES

Property	Results		
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 lbs.
Roll diameter	13.5" (34.3 cm)	15" (38 cm)	15.5" (39.4 cm)
TCNA 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
Flame spread smoke development	Class A 15/55	Class A 15/55	Class A 15/55
ΔIIC	16	20	23

ENVIRONMENTAL CONSIDERATIONS

Custom Building Products is committed to environmental responsibility in both products produced and in manufacturing practices.

5. Installation

PREPARATORY WORK

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 EasyMat, 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 EasyMat 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 contaminates. 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:

EasyMat 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 for 3 mm and 5 mm or use a 1/4" x 1/4" x 1/4" (6 x 6 x 6 mm) square-notch trowel for 12 mm. Apply only enough mortar as can be covered with EasyMat within 20 – 30 minutes. As a second alternative, OmniGrip® Maximum Strength Adhesive or ReliaBond® Ceramic Tile Adhesive can be used to bond EasyMat 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.

METHODS**Application****Basic Non Peel & Stick Application**

Unroll EasyMat laying out the material to use your cuts efficiently. Cut each roll to the required length. Lay EasyMat perpendicular to the subsequent installation direction of the substrate. Roll out a section of EasyMat and fold the material back halfway. Apply a Custom® bonding material listed previously. Embed EasyMat, inside face-down (against the curl of the roll), 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 for 3 mm and 5 mm and a 100 lb. (45 kg) roller for 12 mm. Or use a hand roller applying 30 – 50 lbs. (13 – 26 kg) of pressure for 3 mm and 5 mm mats and 100 lbs. (45 kg) of pressure for the 12 mm mat 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 length-wise edge of the material is aligned exactly with the neighboring section. Edges must contact but not overlap. For the 12 mm, as with all thicker rolled soft flooring products, back-curling/lifting may occur at the ends. Once laid out and in position, seams and ends may need to be weighted (a few inches in) with a short board, strait edge, or tile until the mortar takes set. Repeat procedure for the next section of EasyMat. You can begin to install tile immediately after installation of EasyMat is complete, provided full coverage with the

thin-set bond coat has been attained between the substrate (plywood or OSB) and EasyMat, and that steps are taken to ensure the bond between the substrate and EasyMat is not broken as the tile is set.

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 lbs. (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 EasyMat 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

Waterproof subfloor using RedGard Waterproofing and Crack Prevention Membrane as per package instructions. Then bond EasyMat to subfloor as per general application instructions.

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): EasyMat is approved for use under floating floor systems. Follow instructions above for bonding EasyMat to subfloor, then follow floor manufacturer’s instructions for installation of the floor.

Hardwood

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

1) Consult with the wood adhesive manufacturer for compatibility with EasyMat.

or

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

Coverage

SIZE	COVERAGE
48" x 10' (1.2 M x 3 M)	40 sq. ft. (3.7 M ²)
4' x 30' (1.2 M x 9.14 M)	120 sq. ft. (11.1 M ²)
4' x 75' (1.2 M x 22.9 M)	300 sq. ft. (27.9 M ²)
4' x 100' (1.2 M x 30.5 M)	400 sq. ft. (37.2 M ²)

Cleaning

Clean tools and hands with soap and water.

BUILDING CODES

Installation must comply with the requirements of all applicable local, state and federal code jurisdictions.

6. Availability & Cost

Contact the manufacturer or visit custombuildingproducts.com for information about product cost and availability.

	ITEM CODE	SIZE	PEEL & STICK BACKING	PKG
USA	SGL3	4' x 100' (1.2 M x 30.5 M)	No	Roll
USA	SGL3P	4' x 100' (1.2 M x 30.5 M)	Yes	Roll
USA	SGL5	4' x 75' (1.2 M x 22.9 M)	No	Roll
USA	SGL5P	4' x 75' (1.2 M x 22.9 M)	Yes	Roll
USA	SGL12	4' x 30' (1.2 M x 9.14 M)	No	Roll
USA	EM40-4	4' x 10' (1.2 M x 3 M)	Yes	Roll
Canada	CEM40-4	4' x 10' (1.2 M x 3 M)	Yes	Roll

7. Limited Product Warranty

EasyMat is eligible for a Lifetime Installation System Warranty when used in a complete installation system.

Custom Building Products warrants to the original consumer purchaser that its product shall be free from defects in material and workmanship under normal and proper usage for a period of one year following the date of original purchase. Custom’s sole liability under this warranty shall be limited to the replacement of the product. Some states, countries or territories do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty will not extend to any product which has been modified in any way or which has not been used in accordance with Custom’s printed instructions. Custom makes no other warranties either expressed or implied. This warranty gives you specific legal rights, and you may have other rights that vary from state to state or from one country/territory to another.

For details and complete warranty information, visit custombuildingproducts.com

8. Maintenance

Properly installed product requires no special maintenance.

9. Technical Services

For technical assistance, contact Custom Building Products or visit custombuildingproducts.com.

10. Filing Systems

Additional product information is available from the manufacturer upon request.

Related Products

FlexBond® Crack Prevention Mortar

Polyblend® Grout

Prism® SureColor® Grout

