

# Rolled Underlayments

## KeedeRoll™ MT

### Uncoupling Mat



*Flooring Experts since 1951*



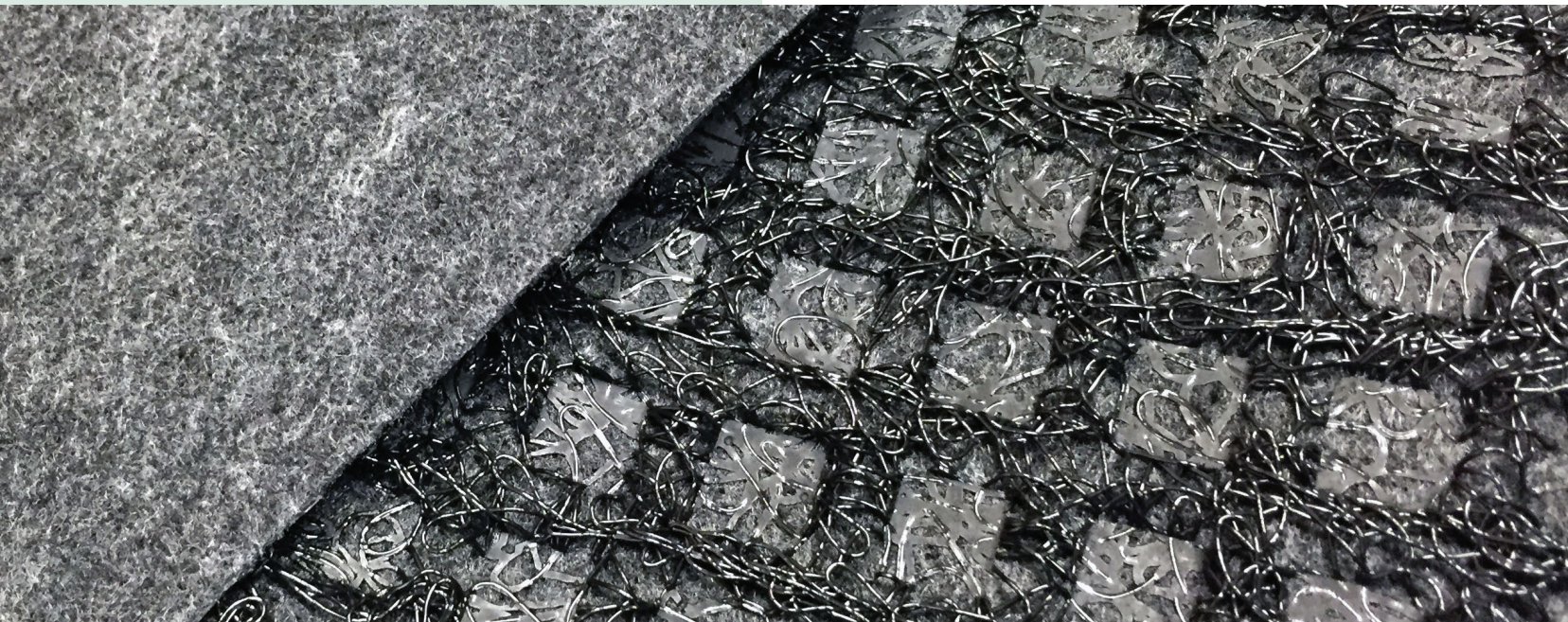
**KeedeRoll MT** is a fast, durable and cost effective solution to protect tile and reduce unwanted noise in one roll.

- **Lay FLAT technology**
- Strengthens wood substrate
- Easy to install
- Light weight
- “Extra Heavy Rated” on the Robinson Wheel Test
- Reinforcement for mortar
- **21 point IIC Delta on 8” concrete**
- Meets code on 8” concrete (53 IIC)
- 97 7-Day Shear PSI doubles uncoupling standard

Tile poses a unique challenge for builders attempting to control noise. Like most hard surfaces, ceramic tile performs poorly in many environments; unlike most hard surfaces, solving this issue while maintaining a durable floor is difficult.

Traditionally, rubber mats reduce unwanted impact noise by deadening noise below hard floor coverings. Unlike wood and vinyl, tile also requires a durable substrate that reduces subfloor movements.

**KeedeRoll MT** combines our patented Muffling Technology with our uncoupling KEEDE technology to create a quiet yet durable subfloor. Specifically designed for ceramic tile, **KeedeRoll MT** contains all the benefits of both an uncoupling mat and a sound mat.



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# KeedeRoll MT SOUND Testing



## STC AND IIC

Sound is measured in two different ways: STC and IIC

### Sound Transmission Class (STC)

Measures the transmission of airborne noise through walls and floors.

### Impact Isolation Class (IIC)

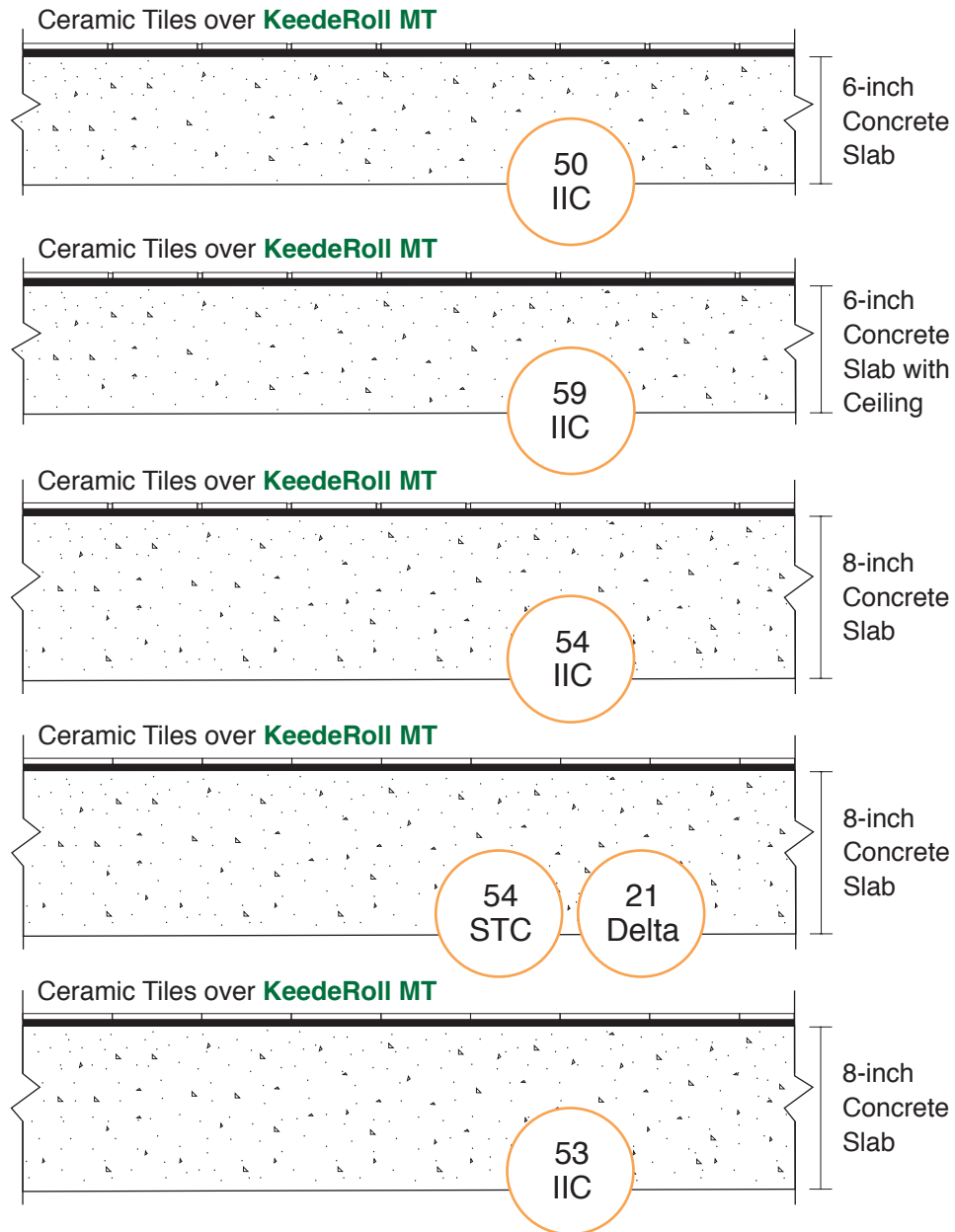
Measures the transmission of noise caused by impact; the most common form of impact noise in residential construction is footfall.

Ceramic tile floor systems are most concerned with impact noise. Softening the connection between the subfloor and the floor covering reduces the amount of noise passing through your assembly. This technique is part of the reason why carpet performs better than hard surfaces acoustically: carpet pad softens the connection between the carpet and the subfloor. **KeedeRoll MT** thus muffles impact noise, while also protecting the tile against shear.



## SOUND TEST

ASTM E492 and ASTM E2179:





**KeedeRoll MT** offers ease of installation and convenience on a roll. Installers can easily cut **KeedeRoll MT** around obstructions like: pipes, wires and posts with scissors, and install tile over the mat as soon as it's laid down over thin-set.

#### Adhesives for use BELOW KeedeRoll MT:

- Mapei Eco 420
- Roberts Carpet Glue
- Laticrete 125 Sound & Crack Adhesive

#### Thin-set Mortars for use ON and BELOW KeedeRoll MT:

- Custom Building Products Versabond
- Mapei Ultraflex 1
- Any thin-set which passes ANSI 118.11

For other approved adhesives and thin-set mortars please contact technical service at 1-800-227-3434.



## FLOOR REQUIREMENTS

### WOOD

OSB and plywood are approved substrates for KeedeRoll MT. Ensure the flooring is structurally sound and built to code, with movement joists placed in accordance with industry standards.

#### Joist

- For a 16" o.c. joist, I-joist, or floor truss, use a minimum subfloor thickness of 5/8" (16 mm). Tongue-and-groove with a 1/8" (3 mm) gap between sheets.
- For a 19.2" o.c. joist, I-joist, or floor truss, use a minimum subfloor thickness of 3/4" (19 mm). Tongue-and-groove with a 1/8" (3 mm) gap between sheets.
- For 24" o.c. I-joist, or floor truss, use a double layer of plywood. Use a minimum subfloor thickness of 3/4" (19 mm) and an added layer of 3/8" (10mm) subfloor as a second layer.

#### Substrate Preparation

- Ensure the subfloor is properly fastened, structurally sound and built to code.
- Clear any dust, paint, oil, wax or potential bond breaker from the floor. Consult Dependable Technical Services if you have any questions.
- The subfloor MUST be flat and level. If leveling is required use a Dependable self-leveler or patching product. Dependable's SKIMFLOW ES or SKIMFLOW HPI is recommended. Consult the product's data sheet for details.

### CONCRETE

Concrete is an approved substrate for KeedeRoll, ensure it's structurally sound prior to installation. Additionally, ensure the slab meets TCNA requirements and temperature requirements.

#### Substrate preparation:

- Ensure the substrate is structurally sound
- Clear any dust, paint, oil, wax or potential bond breaker from the floor. Consult Dependable Technical Services if you have any questions
- The subfloor MUST be flat and level. If leveling is required use a Dependable self-leveler or patching product. If you're installing KeedeRoll MT on a gypsum concrete subfloor use Dependable's SKIMFLOW HPI or WHITE SKIMCOAT (see data sheets for details). If you're installing KeedeRoll MT on a Portland concrete floor use Dependable's SKIMFLOW ES and FEATHERCRETE products (see data sheets for details).
- Assure that the RH level of the concrete slab is in accordance with the finished floor's tolerance level. Consult the manufacturer's instructions. Use ASTM F2170 Standard Test Method for determining RH in concrete slabs to determine RH levels. (Note: this is not required for gypsum concrete).
- If the concrete slab exhibits any cracking, ensure the cracks are in-plane. If the cracks are NOT in-plane, do NOT install KeedeRoll MT.

#### Movement Joints:

Movement joints must be installed in accordance with industry standards, if they are not, do NOT install KeedeRoll MT.

### HEATED FLOORS

Heated floors are an approved substrate for KeedeRoll MT. Ensure the heated floor is either an electric thin mat or wire heating floor system. Follow the manufacturer's installation instructions, and follow KeedeRoll's installation instructions for wood substrates above.

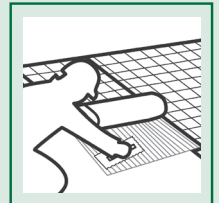
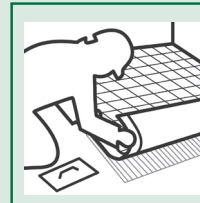
**REQUIRED TOOLS:** 1.4" or V-notch trowel, appropriate thin-set mortar, carpet knife and tile float or roller.



## INSTALLATION INSTRUCTIONS

Following the steps properly while installing KeedeRoll MT is essential to the success of your installation.

- Mix mortar according to the manufacture instructions
- Starting from the wall and using the appropriate thin-set mortar begin troweling out the mortar using a 1/4" x 3/16" V-notch trowel.
- Trowel enough area to cover with a portion of KeedeRoll MT then work your way down while rolling out the mat.
- Place KeedeRoll MT into the mortar with the fabric side down. Use a float trowel or roller should be used to ensure that the fabric is embedded to the mortar. Roll the area until any air pockets are eliminated.
- Lift up a corner to ensure there is full coverage of thin-set mortar on the fabric.
- Align the end and side sections of KeedeRoll MT and apply mortar to the selvedge edge and subfloor. Roll the product out as done previously. Continue working the product out while making sure the joints are butted tightly and the selvedge edge is covered. Continue this pattern until the area is complete.
- At roll ends or butt joints place a piece of scrap KeedeRoll MT fabric with the core removed from it under both pieces and trowel or roll into the thin-set mortar. Place additional mortar on the fabric and continue with the installation, assuring the fabric covers the entire seam edge.



### INSTALLING TILE OVER KEEDEROLL MT

All tile must be installed according to the tile manufacturers recommended installation instructions.

- Tile may be installed over KeedeRoll MT as soon as KeedeRoll MT has been installed and embedded into place.
- Trowel the appropriate mortar using the appropriate size trowel recommended by the tile manufacturer depending on the tile size.
- Ensure the mortar has filled the entangled net and encased into the filaments.
- Embed the tiles into the setting materials. Periodically lift the tile to make sure the tile has appropriate coverage.

### LIMITATIONS

- This product is not intended for use in areas with standing water.
- This is including but not limited to fountains, pools, and tiled tubs.
- This product is not intended to be used as a wear surface.
- Always follow TCNA guidelines when installing KeedeRoll MT.
- Do not bond directly to particle board, vinyl flooring, metal or other surfaces not approved by Dependable.
- KeedeRoll MT is not designed to work in environments not approved by the thin-set manufacturer.
- When installing natural stone over KeedeRoll, we recommend the use of two layers of plywood underlayment. If the installer does not use two layers of plywood, the limited warranty does not apply.
- Large format tile applications are not warranted for industrial applications.

Technical Assistance

Visit our website: [floorprep.com](http://floorprep.com) or call 1-800-227-3434.