

# ACOUSTICAL & UNCOUPLING MEMBRANE

# KEEDEROLL® MT



BY DEPENDABLE

## DIVISION

Division 9  
Tile Finishes 09 30 95  
Acoustical Treatments 09 800

## PACKAGING

KeedeRoll® MT  
200 square feet roll  
- 4 ft. width  
- 50 ft. length  
- 30 lbs/roll

## APPROVED SUBSTRATES

- Plywood or OSB subfloors
- Concrete
- Radiant heat flooring
- Gypsum underlayment

KeedeRoll® MT is a high load bearing Uncoupling and Sound Proofing Membrane ideal for use under ceramic tile installations. KeedeRoll MT's geometrical shape with entangled net ensure an effective, well bonded one step application to protect tile and grout from substrate movement. Bonded to a patented "Muffling" technology (MT) fabric KeedeRoll® MT provides exceptional reduction of sound and impact transmission.

KeedeRoll® MT represents a simple, one step installation that protects the finished tile installation from substrate stresses all while significantly reducing sound and noise transmission in multifamily, residential and commercial environments.

## Features

- Helps prevent grout joint and tile damage
- "Extra Heavy Rated" on the Robinson Type Wheel Test
- 21 point IIC Delta on 8" concrete
- Meets code on 8" concrete (54 IIC)
- Bridges in plane cracks up to 1/8" (3mm) without transfer to tile
- Light weight
- Reinforcement for mortar
- Exceptional flexibility with bonding adhesives

## Properties

### Sound Test (ASTM E492 and ASTM E2179): Ceramic Tile over KeedeRoll MT

6 inch concrete slab	50 IIC
6 inch concrete slab with ceiling	59 IIC
8 inch concrete slab	IIC 54 (Delta IIC: 21), STC 54

### Robinson-Type Wheel Test (ASTM C627)

Plywood 16" o.c.	Extra Heavy
Plywood 19.2" o.c.	Moderate
Concrete 6" slab	Extra Heavy
Concrete 8" slab	Extra Heavy

## PREPARATION AND APPLICATION

### FOR PROFESSIONAL USE ONLY FLOOR REQUIREMENTS

#### CONCRETE

Ensure all concrete is structurally sound, smooth, and stable prior to installing KeedeRoll® MT. Additionally ensure the slab meets TCNA requirements and the temperature/environmental requirements of the tile. All moving joints must be honored. Control joints must be honored or addressed prior to installation of KeedeRoll MT. FloorPrep.com recommends consulting with a local engineer to determine suitability to fill and bridge control joints.

#### GYPSUM Underlayment

KeedeRoll MT serves as a TCNA approved barrier between tile and the gypsum underlayment. Ensure the gypsum is structurally sound, smooth, and stable prior to installing KeedeRoll MT. It is recommended that you seal the gypsum underlayment prior to installing adhesive or mortar. FloorPrep.com's Primer P360 will work as a sealer. Reference the Primer P360 technical data sheet for installation instructions.

## MATERIALS RECOMMENDATIONS

All materials must be delivered to the job site in original containers with all of manufacturer's labeling intact. No modifications are allowed.

**Gypsum Sealer:**  
GSL ALL PURPOSE  
SEALER, PRIMER A

**Wood Adhesives:**  
Mapei ECO 980, Parabond  
4010, Bostick Best,  
DriTac7700, or equivalent  
adhesive

**Carpet Adhesives:**  
Mapei ECO 373, Taylor  
Dynamic, DriTac5900, or  
equivalent adhesive

**Vinyl Adhesives:**  
Mapei ECO 360, Taylor  
Resolute, DriTac 5900, or  
equivalent adhesive

**Mortar Adhesives:**  
Ultraflex 1, Versabond, or  
any ANSI A118.11 approved  
mortar

**Thin Set:**  
KEEDESET, Bostik  
Hydroment Single Flex  
Mortar  
Others can be evaluated  
by Dependable Technical

**Perimeter Isolation Strips:**  
Keene Building Products'  
Quiet Qurl® Perimeter  
Isolation with Quik Stick

## PREPARATION AND APPLICATION Continued

### Substrate Preparation

- Ensure all substrates (Concrete/Gypsum Underlayment) are dry, structurally sound, smooth, and stable.
- Mechanically remove any dust, paint, oil, wax, or potential bond breakers from the substrate. gypsum underlayments may require remediation to remove dusting. Consider FloorPrep.com's PrepPro SLV to address severe dusting of gypsum underlayments or Primer P360 to address light dusting.
- All substrates must be smooth and flat with a maximum variance of 1/4" in 10' (6 mm in 3 m) from the required plane per TCNA or TTMAC guidelines or as recommended by the tile or stone manufacturer (default to the most stringent requirement). If smoothing is required, it is recommended to install a self-leveling underlayment prior to installing KeedeRoll® MT. Reference FloorPrep.com for a wide variety of underlayments suitable for use over concrete, gypsum wood or other than may become part of a greater "system warranty."
- Assure that the relative humidity of any concrete slab is in accordance with the finished floor's tolerance level. Use ASTM F2170 Standard Test Method for determining RH in concrete slabs to determine RH levels. If moisture remediation is required use FloorPrep.com's Platform EMS. Test gypsum concrete for moisture content using a Delmhorst moisture meter to determine if the gypsum slab is suitable for installation of ceramic tile. Consult Technical Services for suitable moisture levels in gypsum underlayments prior to installation, industry standards call for a residual moisture reading not to exceed 0.5 – 2.0% prior to installing uncoupling membranes.
- Prior to installing KeedeRoll MT, ensure any cracks existing in the substrate are "in plane".

### WOOD

Only APA rated OSB & Plywood substrates are suitable for KeedeRoll® MT. Ensure the subfloor is structurally sound, stable, and built to code with movement joists placed in accordance with industry standards. General standards call for a deflection not to exceed L/360 for ceramic tile installations and L/720 for Natural Stone.

#### Minimum Thicknesses by Joist Width

- For a 16" o.c. joist, I-joist or floor truss a minimum subfloor thickness of 5/8" (16mm) is required with a minimum 1/8" tongue and groove gap between sheets.
- For a 19.2" o.c. joist, I-joist, or floor truss a minimum subfloor thickness of 3/4" (19mm) is required with a minimum 1/8" tongue and groove gap between sheets.
- For a 24" o.c. joist, I-joist or floor truss a double layer of plywood with one layer being at least 3/4" (19mm) and an added layer of 3/8" (10mm) subfloor is required. A minimum of 1/8" tongue and groove gap between sheets is also required. If a second layer of plywood is undesirable, a layer of FloorPrep.com's Skimflow LCB at 3/8" minimum thickness may be used as an alternate.

## APPLICATION INSTRUCTIONS

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

- KeedeRoll MT may be bonded to the substrate with a wide variety of mortars or adhesives. Follow the mortar and/or adhesive manufacturer's instructions for mixing and application.
- When installing to realize the full benefit of sound attenuation properties, utilize perimeter isolation strips around the room perimeter.
  1. Place isolation strips if required.
  2. PrePosition and precut your KeedeRoll MT to cover your substrate. Place the KeedeRoll MT so that subfloor control joints are at least 3" from the long edge of any roll of KeedeRoll MT. Align the end and edges of KeedeRoll MT and ensure all the seams (sides & ends) are butted tightly together. You may need to remove the selvage edge in some areas to ensure a smooth installation.
  3. Starting from the wall and using the appropriate thin-set mortar or adhesive, begin troweling out the mortar/adhesive; MORTARS: USE 1/4" x 3/16" V-Notch trowel. ADHESIVES: 1/16" x 1/16" x 1/16" V-Notch trowel. Only trowel out enough mortar/adhesive that can be covered with KeedeRoll MT within the allowable working time of mortar/adhesive.
  4. Place KeedeRoll MT into the mortar/adhesive with the fabric side down. Lift up a corner to ensure there is full coverage of mortar/adhesive on the fabric – if not, adjust application to ensure full mortar/adhesive coverage.
  5. Use a weighted roller to ensure the fabric is embedded into the mortar/adhesive. Roll the KeedeRoll until all air pockets are eliminated.
  6. Align the end and edges of KeedeRoll MT and ensure the seams are butted tightly together.
  7. Once the adhesive bonding the KeedeRoll MT to the substrate has dried, proceed with tile installation. Follow thinset manufacturer recommendations.



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Dependable, LLC warrants to the initial purchaser only that the goods sold hereunder will be free from defects in material and workmanship and, except as otherwise set forth herein, will conform to the specifications provided. If any failure to meet this warranty appears within one year from the date of shipment of the goods, on the condition that Dependable, LLC. will correct any such failure by either replacing or repairing any defective goods, at Dependable, LLC's option.

The preceding paragraph sets forth the exclusive remedy for all claims based on failure of or defect in the goods sold hereunder, whether such failure or defect arises before or during the warranty period and whether a claim, however instituted, is based on contract, indemnity, warranty, tort (including negligence), strict liability or otherwise. The forgoing warranty is exclusive and is in lieu of all other warranties whether written, oral, implied or statutory.

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## INSTALLING TILE OVER KEEDEROLL® MT

All tile must be installed according to the tile manufacturers' instructions.

- Tile may be installed over KeedeRoll® MT as soon as it has been embedded into place.
- Trowel the appropriate mortar using the recommended size trowel to key in mortar into the mat.
- Ensure the mortar has filled the entangled net and is encased into the filaments.
- Spread the tile manufacturers' recommended mortar onto KeedeRoll MT, then embed the tiles into the setting material. Periodically lift the tile to ensure the tile has appropriate coverage.

## LIMITATIONS

- This product is not intended for use in areas with standing water including, but not limited to: fountains, pools, and filled tubs.
- This product is not intended to be used as a wear surface.
- 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 setting materials' manufacturer.
- When installing natural stone over KeedeRoll on a wood substrate, we recommend the use of two layers of ¾" plywood.



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Published technical data & instructions are subject to change without notice. Please contact Dependable for the most current technical data, safety data & application instructions.

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3/3

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