

**WHISPER MAT<sup>®</sup> CS**  
FOR THIN-SET TILE APPLICATIONS



## PROTECTO WRAP FLOORING UNDERLAYMENTS

PEEL & STICK SOUND REDUCTION  
& CRACK ISOLATION MEMBRANE  
FOR THIN-SET TILE APPLICATIONS

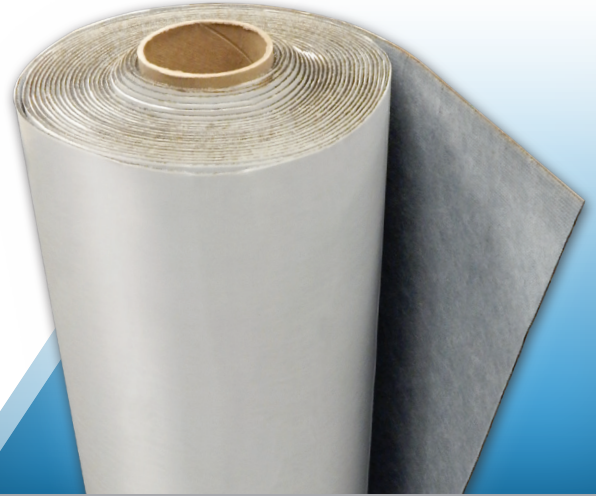
Premium Building Products That Protect

| RESIDENTIAL · COMMERCIAL |

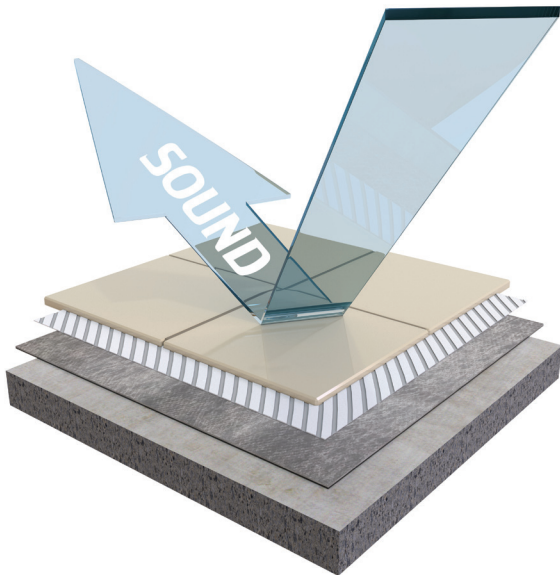


**WHISPER MAT<sup>®</sup> CS** is a peel & stick sheet membrane that reduces impact and airborne sound transmissions, and isolates “finished” flooring from subfloor cracks. Designed for thin-set tile applications where sound reduction is required, specified or desired.

Constructed of a top layer of reinforced polyester mesh fabric with a middle layer of sound reduction material and a bottom layer of aggressive rubberized adhesive with an attached release liner for peel & stick application, Whisper Mat CS also has the flexibility and strength to withstand structural movement and concrete shrinkage cracks up to 3/8" without transferring stress load to finished tile. Additionally, excellent moisture resistant properties make this the most comprehensive underlayment product for thin-set tile applications available.



## PROPERTIES AND ADVANTAGES



- **SOUND REDUCTION RATINGS:**
  - 8" CONCRETE FLOOR WITH A GYPSUM BOARD CEILING ASSEMBLY: IIC 72 STC 72
  - 8" CONCRETE FLOOR: IIC 51 STC 56
  - 6" CONCRETE FLOOR: IIC 50 STC 55
- **SOUND TRANSMISSION REDUCTION:**
  - DELTA IIC 22
- **MOISTURE RESISTANT AND ECONOMICAL**
- **ANTI-FRACTURE RESISTANT TO 3/8"**
- **LIGHT COMMERCIAL LOAD RATING**
- **APPROVED WITH RADIANT HEATED SUBFLOORS**
  - PROVIDES THERMAL BREAK
- **UNIQUELY THIN SYSTEM (110 MIL)**



## WHY SPECIFY PROTECTO WRAP'S FLOORING MEMBRANES?

Protecto Wrap Company has been manufacturing membranes since 1952 and has built a sound reputation for producing the highest quality products available. Our sheet membranes meet or exceed sound properties for almost any job specification. Protecto Wrap's strict quality control combined with committed research and development allows for production of the highest quality products available to the flooring and building industries.

# NEW CONSTRUCTION, REMODELING, RESIDENTIAL & COMMERCIAL CONSTRUCTION

## BASIC USES

Whisper Mat CS is designed to be an underlayment for thin-set tile applications where transmitted or impact sound reduction is required. It may be applied to substrates meeting ANSI A108.01 Requirements including: concrete, plywood substrates meeting ANSI 108.1 gypsum underlayments, precast floor panels, ceramic tile, terrazzo, natural stone, leveling and patching compounds, cement backer board, existing VAT and VCT. Whisper Mat CS is approved with radiant heated floors.

## LIMITATIONS

Do not use solvent based sealants or sealers where contact with membrane may occur as they may deteriorate the product. Whisper Mat CS is not recommended for use on concrete floors when hydrostatic head pressure or excessive water vapor transmission exceeds 4lbs. (tested by "Calcium Chloride Test" method), where constant water vapor transmission is present or a relative humidity level of more than 75% of slab. If these conditions exist, they must be addressed before installation of Whisper Mat CS. Whisper Mat CS is not recommended for use where horizontal floor movement is greater than 3/8". Existing cracks larger than 3/16" should be prepared with proper backing material prior to installation of membrane.

Whisper Mat CS is not recommended to cover joints or cracks larger than 3/8". Membrane does not provide crack isolation properties to mortar beds greater than 3/8" thick. Not recommended for use where vertical floor movement is present. For installation over plywood substrates, follow ANSI 108.01- 3.4 Wood Subfloor Requirements. For concrete expansion joints and movement joints refer to TCNA Detail EJ171. Installation procedures and job site conditions must be in accordance with flooring manufacturer's recommendations and TCNA installation standards. Whisper Mat CS is designed for thin-set applications. Installations requiring more than 3/8" of thin-set mortar need to be raised with a self-leveling compound or a pre-mortar bed and allowed to cure prior to installation of Whisper Mat CS. Use latex-modified thin set mortar meeting the ANSI 118.4. to tile over Whisper Mat CS.

## COMPOSITION AND MATERIALS

Whisper Mat CS is constructed of a top layer of reinforced polyester mesh fabric with a middle layer of sound reduction material and a bottom layer of aggressive rubberized adhesive with an attached release liner for peel & stick application. The membrane is tacky on the bottom providing superior adhesion to properly prepared and approved substrates. The polyester mesh fabric top makes an excellent bonding surface for latex modified thin set mortars. Whisper Mat CS contains no V.O.C's and is environmentally safe which allows it to be used in confined areas. The aggressive rubberized adhesive retains its flexibility throughout the floor's life span and will not dry out or decay with time.

## SIZE

Available in 36" x 40' rolls.



## APPLICATIONS

The sound absorption properties combined with the anti-fracture properties makes Whisper Mat CS an excellent system to enhance ceramic and stone flooring installation performance in:

- **Commercial**
- **Multi-family**
- **Healthcare**
- **Educational**
- **Residential**
- **Hospitality**
- **Municipal**
- **Government**





Apply Primer



Cut to Correct Length



Remove & Press in Place



Apply Latex-Modified Thinset & Install Tile

## INSTALLATION

**Follow flooring manufacturer's recommended installation instructions.** Installation and substrate requirements must also conform to TCNA standards. Flooring and membrane must acclimate to job site conditions before installation. Substrates must be dry, clean and free of dirt, grease, wax, paint, oil or loose foreign matter that would adversely affect adhesion of the Whisper Mat.

**Substrates must be checked for excessive moisture.** If substrate moisture/vapor is beyond 4lb. emissions or a relative humidity level of more than 75% of slab. If these conditions exist, they must be addressed before installation of Whisper Mat CS (see "Limitations"). Leveling cements must be completely dry before membrane application.

**Priming the substrate:** Always apply the Protecto Wrap #6000 primer or Protecto Universal Water Based Primer™ to the substrate and allow to dry (approx 20-30 min.) before installing the Whisper Mat CS to ensure a good bond.

**Unroll Whisper Mat CS with the release liner side down.** Cut to the appropriate length. Fold back half

of the length of the roll back over the other half of the material. Score through the release liner only, taking care not to cut completely through membrane. Pull release liner away from membrane where scored. As the release liner is pulled away, hand-smooth the membrane to contact the primed substrate. Keep the release liner material close to the floor while pulling away, this will allow for a more controlled application of the membrane. Align membranes in a butt joint fashion making sure not to overlap seams.

**Take note:** There will be an immediate and aggressive bond of the membrane to the primed substrate. Realignment of the membrane can be difficult once adhered to the substrate.

**After Whisper Mat CS is adhered, ceramic or stone tiles can be installed** with a latex modified thin set meeting the ANSI 118.6 standard. Follow mortar manufacturer's recommendations for trowel size and open time. Continue to follow the TCNA's installation recommendations through the remainder of the installation.

## ACCESSORIES

**P.W. #6000** water based interior primer concentrate available in 1 gallon containers. Coverage area of approximately 500 sq. ft. per gallon when diluted 2 parts clean water to 1 part concentrate.



**Protecto Universal Water Based Primer™** available in 1 and 5 gallon containers. Coverage area of approximately 250-350 sq. ft. per gallon, depending on substrate.



## SYSTEM PERFORMANCE

Whisper Mat CS has been tested by the Tile Council of North America (TCNA) for system performance in accordance with ASTM C627 (Robinson Type Floor Tester) and rated for light commercial applications. Sound Control: Protecto Wrap's Whisper Mat CS has been tested by a certified independent acoustical laboratory in compliance with ASTM E90, ASTM E492 and ASTM E2179.

## APPLICATION STANDARDS

**ASTM C482** "Bond Strength of Ceramic Tile to Portland Cement"

**ASTM C627** "Robinson Floor Test"

**ASTM E492** "Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies using the Tapping Machine"

**ASTM E90** "Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements"

## TECHNICAL DATA

<b>Thickness</b>	110 mils
<b>Color</b>	Grey top, black adhesive bottom
<b>Elongation</b>	500% minimum (rubberized adhesive only)
<b>Application Temperature</b>	45° F to 120° F
<b>In Service Temperature</b>	-20° F to 180° F

## WARRANTY

Whisper Mat CS is warranted to be free of defects in manufacture for a period of 10 years. Protecto Wrap assumes no warranty as to the installation of its products.



### PROTECTO WRAP COMPANY

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