



Premium Building Products  
That Protect

## WHISPER MAT® CS

### PRODUCT DATA SHEET



#### 1. PRODUCT NAME

Whisper Mat CS

#### 2. MANUFACTURER

Protecto Wrap Co.  
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[www.protectowrap.com](http://www.protectowrap.com)

#### 3. PRODUCT DESCRIPTION

Whisper Mat CS is a peel-and-stick Membrane that reduces impact and airborne Sound transmissions and isolates finished flooring from the transfer of subfloor cracks.

#### Accessory Materials

**No. 6000 Primer** - This high tack water-based primer is ideal for use on indoor applications. Available as a concentrate, this primer can be mixed at the jobsite with clean water or used in

its full concentrate form, depending on the condition and porosity of the substrate.

**Protecto Universal Water Based Primer** - A high tack water-based primer.

#### Packaging

Whisper Mat CS is available in 36" × 40' (914 mm × 12.2 m) rolls.

#### Coverage

Whisper Mat CS  
Approximate 120 ft<sup>2</sup> (13 m<sup>2</sup>) per roll

#### Shelf-Life

Whisper Mat CS maintains optimum initial adhesion to substrates when used within one year from the date of manufacture.

#### Uses

- For sound control and crack isolation protection on interior applications under thin set ceramic and dimensional stone tile installations

#### Advantages

- Reduces impact and airborne sound transmissions.
- Has the flexibility and strength to withstand structural movement and concrete shrinkage cracks up to 3/8" without transferring stress load to finished tile.
- Can be installed with radiant heat floor systems.

- Provides a Light Commercial Load Rating per Robinson test.
- Anti-microbial coating and non-wicking fabric top makes an excellent bonding surface for latex modified thin set mortars.

#### Suitable Substrates (Interior Use Only)

- Exterior glue plywood
- Mortar beds
- Concrete
- Cement backer board
- Cement terrazzo
- Ceramic tile and dimensional stone
- Gypcrete
- Stained concrete
- Radiant heated subfloors
- Metal
- Portland based leveling and patching compounds
- Oriented strand board (OSB)

#### Limitations

- Do not apply over marine-grade plywood, wood plank flooring, particle board, Luan, Masonite, laminate or fiberglass surfaces.
- Not for use under agglomerate tile, LVT, cement and epoxy floor topping systems.
- Not for use as a waterproofing membrane - if waterproof installation is required refer to Protecto LM Tech Data Sheet.
- Not for use on concrete floors when hydrostatic head pressure or excessive water vapor transmission exceeds 4lbs., (tested by ASTM F1869, "Calcium Chloride Test" method), where constant water vapor transmission is present or a relative humidity level of more than 75% of slab. These conditions must be

mitigated prior to Whisper Mat CS installation. See Technical Letter, "Water Vapor Transmission Mitigation" at [www.protectowrap.com](http://www.protectowrap.com) for more information.

- Do not use under mortar beds thicker than 3/8". 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.
- Do not use solvent-based sealants on or around Whisper Mat CS as they may deteriorate the product.
- Do not install over wet primer.
- Existing cracks larger than 3/16" should be prepared with proper backing material prior to installation of membrane.
- Not for use over expansion or structural movement joints.

#### 4. TECHNICAL DATA

Property	Test method	Result
Color		Grey top/black adhesive
Thickness		110 mil
Application Temperature		45°F to 120°F (7°C to 49°C)
Operating Temperature		-20°F to 180°F (-29°C to 82°C)
Robinson Floor Test	ASTM C627	Light
Delta Impact sound transmission	ASTM E2179	Delta IIC 22
Airborne sound transmission	ASTM E90	STC 55
Impact sound transmission	ASTM E492	IIC 50

### **Sound Reduction Ratings:**

8" Concrete Slab with Ceiling Assembly: **IIC 72 STC 72**

8" Concrete Slab – No Ceiling: **IIC 51 STC 56**

6" Concrete Slab - No Ceiling: **IIC 50 STC 55**

Delta Impact sound transmission: **Delta IIC 22**

Refer to the Protecto Wrap website for more testing.

## **5. INSTALLATION**

### **Surface Preparation**

Substrate must conform to ANSI A108.01 standards. Assemblies over which Whisper Mat CS will be installed shall be in conformance with the International Residential Code (IRC) for residential applications, the International Building Code (IBC) for commercial applications, or applicable building codes.

Perimeter and field movement joints are to be installed in accordance with TCNA Method EJ171.

- Flooring and membrane must acclimate to jobsite 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 CS. Not for use on concrete floors when hydrostatic head pressure or excessive water vapor transmission exceeds 4lbs., (tested by ASTM F1869, "Calcium Chloride Test" method), where constant water vapor transmission is present or an RH level of more than 75% of slab. These conditions must be mitigated prior to Whisper Mat CS installation. See Technical Letter, "Water Vapor Transmission Mitigation" at

[www.protectowrap.com](http://www.protectowrap.com) for more information.

### **Priming**

Always apply the Protecto Wrap No. 6000 Primer or Protecto Universal Water Based Primer to the substrate and allow to dry (approximately 30 minutes) before installing the Whisper Mat CS to ensure a good bond. Contractor must test for proper adhesion.

### **Layout**

Unroll Whisper Mat CS with the release liner side down. Precut the length slightly longer than the distance to be covered. Trim membrane to fit against walls and cutouts within ¼". Fold back half of the length of the roll back over the other half of the material. Score through the release liner only and take care not to cut completely through the membrane.

### **Application**

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.

Note - There will be an immediate and aggressive bond of the membrane to the primed substrate. Realignment of the membrane can be difficult once adherence to the substrate begins.

After Whisper Mat CS is installed, ceramic, porcelain or stone tiles can be installed in a 3/8" or less bed of mortar that meets the ANSI 118.4 standards.

Follow the TCNA and ANSI installation requirements through the remainder of the installation.

## **6. AVAILABILITY AND COST**

Whisper Mat CS is manufactured in Denver, CO; it is competitively priced and available worldwide through a network of Protecto Wrap distributors. For detailed product information or to find a local representative or distributor, contact Protecto Wrap Company corporate office for information at 1-800-759-9727.

## **7. 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.

## **8. MAINTENANCE**

None required. If installed in accordance with manufacturer's recommendations, Whisper Mat CS should last the life of the structure.

## **9. TECHNICAL SERVICES**

Complete technical assistance and information are available from Protecto Wrap.

## **10. FILING SYSTEM**

Additional product information is available on our website at [www.protectowrap.com](http://www.protectowrap.com) or contact our corporate office at 1-800-759-9727.