Premium Building Products That Protect

WHISPER MAT® CS

PRODUCT DATA SHEET



1. PRODUCT NAME

Whisper Mat CS

2. MANUFACTURER

Protecto Wrap Co.
1955 South Cherokee St.
Denver, CO 80223
(800) 759-9727
(303) 777-3001
Fax: (303) 777-9273
E-mail: info@protectowrap.com
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.

Packaging

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

Coverage

Whisper Mat CS
Approximate 120 ft^2 (13 m^2) 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
- Anti-microbial coating

Suitable Substrates (Interior Use Only)

- Concrete
- Mortar beds
- Exterior glue plywood
- Cement backer board
- Cement terrazzo
- Ceramic tile and stone
- Oriented strand board (OSB),

Limitations

- Do not apply over marine-grade plywood, wood plank flooring, particle board, Luan, Masonite, laminate, metal or fiberglass surfaces
- Not for use under agglomerate tile, LVT, cement and epoxy floor topping systems
- Not for use as a waterproofing membrane
- Not for use on concrete floors where hydrostatic pressure exists or where moisture vapor transmission exceeds 4 lb.
- 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 or sealers where contact with membrane may occur
- 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 Floor with a Gypsum Board Ceiling Assembly: **IIC 72 STC 72**

6" Concrete Floor: **IIC 50 STC 55**

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

5. INSTALLATION

Surface Preparation

Subfloor must conform to ANSI A108.01 standards. Assemblies over which AFM Anti Fracture Membrane 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.

Data Sheets are subject to change without notice. For latest revision, visit www.protectowrap.com

Flooring and membrane must acclimate to jobsite conditions before installation. Concrete subfloors must be dry, clean and free of dirt, grease, wax, paint, oil or anything that would adversely affect adhesion of the AFM Anti Fracture Membrane.
Check subfloor for excessive moisture using ASTM E1869 Standard Test Method for measuring moisture vapor emission rate of concrete subfloor using Anhydrous Calcium Chloride. Readings must be less than 4 lb.

Priming

Always apply the Protecto Wrap No. 6000 Primer to the subfloor and allow to dry (approximately 30 minutes) before installing the Whisper Mat-CS to ensure a good bond.

Layout

Unroll Whisper Mat-CS with the release liner side down. Cut the length approximately 12" longer than the distance to be covered. Trim membrane to fit tightly 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 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 subfloor. 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 subfloor. Realignment of the membrane can be difficult once adherence to the subfloor begins.

After Whisper Mat CS is installed, 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.

7. WARRANTY

Whisper Mat-CS is warranted to be free of defects in manufacture for a period of 5 years. Protecto Wrap assumes no warranty as to the installation of its products. Should a Protecto Wrap product prove defective during the term of this guarantee, Protecto Wrap will pay for replacement of the portion of the installation that involves the defective product. This payment will include finish materials, labor and installation; provided the cost per square foot to Protecto Wrap does not exceed the original cost of installation per square foot.

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 field representatives and distributors or by contacting the manufacturer.

10. FILING SYSTEM

Additional product information is available on our website at protectowrap.com or contacting our corporate office at 1-800-759-9727

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1 Under Floor Soundproofing Underlayment (Or Approved Equal)
12" = 1'-0"

TREMCO
Commercial Sealants & Waterproofing

Vulkem® 350NF/351NF

Neighbor-Friendly Pedestrian and Waterproofing System

Product Description

Vulkem® 350NF/351NF is a composite waterproofing system comprised of tough-curing liquid polyurethane. It cures to form a rubber membrane surface that provides a lasting and easy-to-clean coating. Textured surfaces for pedestrian traffic will use an aggregate-laden top membrane to aid in wear and slip resistance. Vulkem 350NF/351NF may be used to apply a seamless, monolithic waterproof membrane to concrete, well-anchored AC plywood, and primed metal surfaces.

Vulkem 350NF Base Coat is a single-component, low odor, low VOC, urethane membrane that bonds firmly to clean, dry concrete, plywood and metal. It retains its integrity even if substrate movement causes hair-line cracks of up to 1/16" (1.5 mm). If cut or damaged, Vulkem 350NF will prevent water migration between itself and the substrate. Vulkem 350NF is available in roller (R) and in self-leveling (SL) grade for vertical and horizontal application.

Vulkem 351NF Top Coat is an aliphatic, low VOC, two-component, polyurethane, which when used in conjunction with the recommended aggregate, creates a tough, aesthetically appealing, skid resistant, wearing surface that forms a strong interlaminate bond to the Vulkem 350NF basecoat.

Basic Uses

Vulkem 350NF/351NF is ideal for plazas, recreation decks, balconies, mechanical rooms, stadiums, athletic surfaces and similar applications requiring an elastomeric waterproofing system.

Features and Benefits

- Fast cure through time allows for use 24 hr after installation.
- Low odor and low level of Volatile Organic Compounds (VOC) allow for use in neighbor friendly, inhabited structures.
- Mildew- and fungus- resistance safeguards concrete surfaces against environmental contaminants.
- Excellent durability and UV resistance extend the useful life of pedestrian systems.
- Recoatable and compatible with other Tremco sealants, which enhances waterproofing protection with full system compatibility.

Availability

Immediately available from your local Tremco Sales Representative, Tremco distributor, or warehouse.

Packaging

Vulkem 350NF: 5-gal (18.9-L) pails, 55-gal (208.2-L) drums

Vulkem 351NF: Part A 5-gal (18.9-L) pails, Part B 12-oz (.36-L) can

Colors

Vulkem 351NF is available in Beige, Gray, Slate Gray, and Limestone. Special colors are available upon request.

Installation

Concrete shall be water-cured and attain a 3000 psi minimum compressive strength. Concrete finish shall be a light steel trowel followed by a fine-hair broom, or equivalent ICRI #2-#4 finish. Moisture content in the concrete must be lower than 4.5% as measured using a Tramex CME 4 Moisture Meter. Depending on concrete construction and job site location, additional concrete testing may be required. Please contact your local Tremco Sales or Technical Representative.

Please refer to the Vulkem 350NF/351NF Application Instructions for complete application details. The techniques involved may require modification to adjust to the jobsite conditions. Consult your Tremco Sales Representative or Tremco Technical Services for site conditions and requirements.

Fire Rated Assemblies

- ANSI/UL790 - Standard Test Methods for Fire Tests of Roof Coverings
- CAN/ULC-S107 - Methods of Fire Tests of Roof Coverings

Limitations

- Do not apply to damp or contaminated surfaces.
- Use with adequate ventilation.

Warranty

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	VULKEM 350NF	VULKEM 351NF
Flash Point	Set-A-Flash	>160 °F (71 °C)	> 200 °F (> 93 °C)
% Solids (by Weight)	ASTM D1353	90 to 98%	95%
Drying Time @ 75 °F, 50% RH	ASTM D1640	40 mil film, 6 to 8 hr	15 mils, 8 to 16
Open to foot traffic		4 to 6 hr	24 hr after cure
Weathering	ASTM D822	N/A	No effect
Salt Spray	ASTM B117	N/A	No effect
Viscosity	Brookfield C&P	4000 to 6000 cps	2000 to 3000 cps
Elongation	ASTM D412	600 to 700%	130%
Tensile Strength	ASTM D412	220 to 460 psi	2600 psi
Hardness (Shore A)	ASTM D2240	45 to 60	90
Adhesion (Peel Strength)	ASTM D903	Unprimed Concrete, 20 to 30 pli, 100% cohesive failure	100% cohesive failure
Adhesion (Pull-Off)	ASTM D4541	200 to 400 psi	200 to 400 psi
Accelerated Aging	ASTM D573	No loss of elongation or tensile strength	No loss of elongation or tensile strength

* Accelerated aging test. 1 daily cycle of UV and water spray greatly exceeds 1 day of real world exposure. Contact Tremco Technical Service or your local sales representative for more information.

0519/350NF/351NFDS-DC

Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets.

Tremco Commercial Sealants & Waterproofing

3735 Green Rd
Beachwood OH 44122
216.292.5000 / 800.321.7906

1451 Jacobson Ave
Ashland OH 44805
419.289.2050 / 800.321.6357

220 Wicksteed Ave
Toronto ON M4H1G7
416.421.3300 / 800.363.3213

1445 Rue de Coulomb
Boucherville QC J4B 7L8
514.521.5555

2 Liquid Applied Waterproofing System
12" = 1'-0"

NOVUS Archetype
architecture / interior / planning

NOVUS Archetype, LLC
12721 SW 30th ST. MIAMI, FL 33175
PH: (305) 505-6910
email: julio@novusarchetype.com
AA26001460
Qualifier: Julio Pulido, AIA
License #: AR93904
Qualifier : Salvador Ben Mitrani, NCARB
License # : AR99606

STATE OF FLORIDA
JULIO PULIDO
AR93904
REGISTERED ARCHITECT

Julio Pulido
Digitally signed by Julio Pulido
Date: 2023.05.11 10:43:51 -04'00'

Eva Vaccaro

2-Story Addition

12940 SW 63 Ave Pinecrest Fl 33156

No.	Description	Date

Project number	-
Date	12-20-2022
Drawn by	SM
Checked by	SM,JP

SHEET TITLE

Details & Specifications

SHEET No.

A705