



Premium Building Products  
That Protect

# AFM® Anti Fracture Membrane

## PRODUCT DATA SHEET



### 1. PRODUCT NAME

AFM Anti Fracture Membrane

### 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](mailto:info@protectowrap.com)

[www.protectowrap.com](http://www.protectowrap.com)

### 3. PRODUCT DESCRIPTION

AFM Anti Fracture Membrane peel and stick sheet membrane specifically designed for use under ceramic tile, porcelain and natural stone as a stress relieving material used in conjunction with thin set methods.

#### 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

AFM Anti Fracture Membrane

Localized crack isolation

12" x 25' Suppression Kit

12" x 75' Suppression Kit

Full floor coverage

36" x 75' roll

#### Coverage

AFM Anti Fracture Membrane

Approximate 225 ft<sup>2</sup> (20.9 m<sup>2</sup>) per roll

#### Shelf Life

AFM Anti Fracture Membrane maintains optimum initial adhesion to substrates when used within one year from the date of manufacture.

#### Uses

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

#### Advantages

- Prevents in plane cracks from surfacing in tile floor finishes
- 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 an Extra Heavy Load Rating
- Anti-microbial coating

### Suitable Substrates (Interior only)

- Concrete
- Mortar beds
- Exterior glue plywood
- Cement backer board
- Cement terrazzo
- Ceramic tile and stone

### Limitations

- Do not apply over marine-grade plywood, OSB (oriented strand board), 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
- 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 inch, 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 membrane 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		40 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	Extra Heavy
Crack Isolation	ANSI 118.12	High Performance

### 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.

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**

Carefully follow application and mixing instructions for Protecto Wrap No. 6000 Primer before installing the membrane.

**Localized crack isolation**, treat in accordance with TCNA F125 (Partial Coverage). Measure and cut off the desired length so that membrane covers 1 1/2 times the width of any and all tiles that cross a crack so that all tiles that bridge a crack sit fully on the membrane.

**Full floor coverage**, treat in accordance with TCNA F125 (Full Coverage)

### **Layout**

Unroll AFM Anti Fracture Membrane 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 1/4"). 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 AFM membrane 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**

AFM Anti Fracture Membrane 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**

AFM Anti Fracture Membrane 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, AFM Anti Fracture Membrane 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](http://protectowrap.com) or contacting our corporate office at 1-800-759-9727.