



**AFM® ANTI FRACTURE MEMBRANE** peel and stick crack isolation 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.

### PROTECTO PRIME™

High tack solvent based primer.

### PACKAGING

**AFM® ANTI FRACTURE MEMBRANE** Full floor coverage  
0.914m x 22.86m roll

### COVERAGE

0.914m x 22.86m = 20.9 sqm 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 interior applications under thin set ceramic, porcelain and dimensional stone tile installations

### ADVANTAGES

- Has the flexibility and strength to withstand structural movement and concrete shrinkage cracks up to 9.5mm 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

- Fibre cement sheet
- Concrete
- Terrazzo
- Porcelain tile
- Radiant heated subfloors
- Portland based leveling and patching compounds
- Mortar beds
- Cement backer board
- Ceramic tile
- Stained concrete
- Metal



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Premium Building Products  
That Protect

## LIMITATIONS

- Not recommended for use on concrete floors when hydrostatic head pressure or excessive water vapor transmission exceeds 1.8kg (tested by “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 **AFM®** installation.
- Not recommended for use where horizontal floor movement is greater than 9.5 mm.
- Cracks larger than 4.8mm should be prepared with proper backing material.
- Do not use over cracks or control joints larger than 9.5mm. Joints that are designed to experience movement should be treated.
- Not recommended for use where vertical floor movement is present.
- Do not apply over marine-grade plywood, timber flooring, particle board or laminate surfaces.
- Not for use under gypsum or cement based self-leveling underlayments or plasterboard.
- When installing tile over **AFM®**, it is required to maintain a thin-set thickness of 9.5 mm or less after the tile is embedded, even if the mortar manufacturer allows for thicker installations. Thicker mortar beds can potentially provide sufficient moisture to cause some natural stones to warp or crown.
- Not recommended for vertical applications exceeding 2.4 m in height.
- For vertical exterior applications, contact Atech to confirm design includes adequate mechanical fastening and movement joints for application.

Technical Data		
Property	Test Method	Result
Color	Grey Top / Black Adhesive	
Thickness		1mm
Application Temp.	45°F to 120°F (7°C to 49°C)	
Operating Temp.	-20°F to 180°F (-29°C to 82°C)	
Robinson Floor Test	ASTM C627	Extra Heavy

## 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 anything that would adversely affect adhesion of the **AFM®**. Not for use on concrete floors when hydrostatic head pressure or excessive water vapor transmission exceeds 4lbs. (tested by ASTM E1869 “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 **AFM®** installation.

### PRIMING THE SUBSTRATE

Always apply the PROTECTO PRIME™ to the substrate and allow to dry (approx 10-20 min.) before installing the **AFM®** to ensure a good bond.

### INSTALLATION

There are 3 installation techniques: crack isolation, full floor coverage and vertical application.

**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.*

### Crack Isolation

Prime area as described above and allow to dry. Cut the desired length(s) of **AFM®** to cover the crack or area of distress as follows:

1. Membrane must cover crack 1-1/2 times the width of the tile or a minimum of 152mm on each side of crack.
2. Where any portion of a tile spans a crack, the tile must rest completely on membrane.

**NOTE:** *If membrane width does not meet the above criteria, turn the membrane 90° and apply in proper lengths perpendicular to the crack. Use multiple strips in a butt joint fashion to cover the length of the crack.*

To apply membrane, carefully remove the first few inches of the paper release backing. Align 150 mm above the beginning of the crack and press into place. Continue removing the release paper, exposing the adhesive bottom, while smoothing the membrane onto the primed surface. Continue to smooth the membrane as it comes into contact with the primer, which is essential to gain maximum adhesion, as well as to minimize trapping air beneath the membrane. Repeat process as necessary.

### Full Floor Coverage

Prime area as described above and allow to dry. Roll out the **AFM®** membrane (do not remove the release paper at this point) and cut to the appropriate length. Pull one half of the membrane on top of the other half. Lightly score the paper at the halfway point. Do not cut through the adhesive. Begin pulling the release paper off the upper section and apply the exposed adhesive bottom to the primed surface, smoothing the membrane as the adhesive comes into contact with the surface. Once completed, pull the other half of the **AFM®** membrane on top of the applied **AFM®** membrane. Pull the remaining release paper off the membrane while smoothing the **AFM®** into place.

Pre-cut a new sheet of **AFM®** and align the new membrane sheet next to the installed **AFM®** membrane sheet as described above. Should air become trapped beneath the membrane, puncture it with a sharp instrument and press the sheet flat. For maximum performance, ensure that 100% of the surface is in contact with the primed substrate.

### Vertical Application

Prime the surface PROTECTO PRIME™ (do not dilute). Apply the membrane as previously described. **AFM®** should be installed from the highest point down in a vertical fashion. For vertical applications, see Limitations section.

## WARRANTY

**AFM® ANTI FRACTURE MEMBRANE** is warranted to be free of defects in manufacture for a period of 10 years. Atech assumes no warranty as to the installation of its products.

## MAINTENANCE

None required. If installed in accordance with manufacturer's recommendations, **AFM® ANTI FRACTURE MEMBRANE** should last the life of the structure.

## TECHNICAL SERVICES

Complete technical assistance and information are available from Atech.

## PRODUCT DATA SHEET: SHEET MEMBRANES: AFM®

### Field Support

Field support where provided, does not constitute supervisory responsibility. Suggestions made by **ATECH®** either verbally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they and not **ATECH®** are responsible for carrying out procedures appropriate to a specific application.

### Customer Responsibility

The technical information and application advice given in this publication is based on the best information available at time of print. As the information herein is of a general nature, no assumption can be made as to the products suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by Commonwealth or State Legislation. The owner, his representative or the contractor is responsible for checking the suitability of products for their intended use.

### Safety Precautions

These products may cause allergic reactions through skin contact, goggles, protective gloves and overalls must be worn. Ensure that there is adequate ventilation and avoid breathing the vapour.

### Exclusion Clause

1. The information contained in this data sheet is based on many years experience and is correct to the best of our knowledge. **ATECH®** will be under no liability whatsoever whether in:
  - a) Contract or tort (including, without limitation, negligence)
  - b) Breach of statute
  - c) Any other legal or equitable obligation other than the quality of the product at the time of despatch.
2. Any queries about specification use or application should be directed to our technical service department immediately.
3. This exclusion clause does not operate to exclude any warranty that by law may not be excluded.

