

## 1. PRODUCT NAME

ANTI-FRACTURE 300

## 2. MANUFACTURER

PROFLEX® Products, Inc.  
2826 Broadway Center Blvd  
Brandon, Florida 33510  
Telephone: 863-937-9623  
Toll Free: 877-577-6353  
Fax: 863-937-9624  
Internet: [www.proflex.us](http://www.proflex.us)



## 3. PRODUCT DESCRIPTION

PROFLEX® AF300 (ANTI-FRACTURE 300) is a ready-to-use single component mold resistant crack-isolation membrane. AF300 provides a uniform surface with excellent elongation to prevent in-plane cracks up to 3/8" from the substrate to the finished ceramic, porcelain, or stone tile. For residential to heavy commercial application; interior and exterior use.

### Uses

PROFLEX® AF300 is for use in areas requiring crack-isolation for thin set tile and stone applications. The membrane can be installed over most sound substrates. Please contact technical support for exterior applications in freeze-thaw zones.

### Advantages

- Low VOC
- Interior or exterior
- Crack isolation up to 3/8"
- Adheres to all common surfaces
- Cures in 4-6 hours
- Excellent adhesion to most common substrates
- Apply with brush, 1" nap roller or trowel
- Mold and mildew resistance
- Ultra White formula

### Suitable Substrates

- Concrete (Poured, Prestressed, Precast)
- Cured Mortar beds
- Patching and Self Leveling Compounds
- Primed Lightweight Gypsum Concrete (Gypcrete®)
- Cement backer-board
- Exterior Grade Plywood
- Other substrates, contact Technical Support

### Packaging and Coverage

3-1/2 gallon unit  
300 sq.ft. per pail  
48 pails per pallet

## 4. TECHNICAL DATA

**Applicable Standards:** AF300 meets or exceeds tile industry requirements: ANSI A118.12 crack isolation membrane for thin set ceramic tile and dimension stone installation. Follow TCNA method F125 and F125A, ANSI A08.17 for installation, in addition to the container's directions.

Physical & Test Data	AF300
Adhesion	> 350 psi
Elongation	> 1000%
Range of temperature for use	40° F to 110° F (at installation) 35° F to 150° F (after installation)
Drying Time (to touch)*	4-6 hours at 70° F and 50% R.H.

LEED 2.2 NC VOC	EQ Credit 4.1	AF300
VOC	< 65 g/l VOC	< 20 g/l VOC

\* When cured at 70° F or higher at 50% R.H. Lower temperature at higher R.H. will require longer cure times

## 5. INSTALLATION

### Surface Preparation

All surfaces must be between 40° F (4° C) to 95° F (35° C) and structurally sound (deflection not to exceed 1/360 of the span), dry, clean and free from oil, grease, wax, paint, old adhesives, sealers and curing compounds. Any contaminants which inhibit proper bond must be removed. Substrate preparation should be completed following ANSI A108.1 "General Requirements for Sub-surfaces." All substrates should be plumb and true, surface deviation should not exceed 1/4" in 10'. Patching, leveling or areas requiring a mortar bed should be prepared using PROFLEX® underlayments. Movement (expansion) joints should be provided to comply with TCNA method EJ171.

### Preparation

**Joints and Cracks:** Pre fill all substrate cracks, cold and control joints with PROFLEX® thin sets, approved urethane caulking or 100% solids silicone sealant.

**Cement Substrates:** All concrete substrates should be cured a minimum of 14 days. Steel trowel floors to a fine broom finish.

**Cement Backer Board:** Follow cement board manufacturer's instructions. Tape and fill joints per manufacturer's directions and "Preparation" section of this data sheet.

**Gypsum Mortar Bed:** All gypsum mortar beds must be primed with PROFLEX® SP1 (Super Prime). Then install AF300 membrane following the "Membrane Application" directions included in this data sheet using TCNA method #F125A for full coverage.

**Plywood and OSB Substrates:** All plywood installations should be interior areas only and protected from exposure to moisture. Cement backer boards may not be required when the wood substrate meets or exceeds the deflection requirements as specified by TCNA and the Marble Institute of America. PROFLEX® will provide our standard warranty on tile applications over AF300 using OSB or plywood substrates meeting the above requirements

**Membrane Application:** Allow any recently prepared areas to dry. When installing AF300 using TCNA method #F125A Full Coverage: apply a liberal coat of AF300. When installing AF300 using TCNA method #F125 Partial Coverage: apply a liberal coat of AF300, the diagonal dimension of the tile, each side of the crack. Periodically, check the film thickness with a wet film thickness gauge, wet coat should be applied approximately 30 to 35 mil. wet thickness, at a rate of approximately 85 s/f per gallon. Total AF300 membrane thickness after drying should be between 14 to 17 mil.

**Movement (expansion) joints:** Joints designed to experience movement, should be provided to comply with TCNA method EJ171.

**Ceramic or Stone Application:** Ceramic or stone tile can be installed immediately after the AF300 membrane has dried to the touch. Residual tack is common. To help lessen tack, lightly "dust" the surface with dry thinset. PROFLEX® recommends quality latex portland cement thin set that meets ANSI 118.11. Follow the directions on thin set container for proper application.

**Curing:** Provide adequate protection for AF300 membrane, even if covered with a ceramic or stone tile application, against exposure to rain, or inclement weather for a minimum of 24 hours at 70° F (21° C) and 50% R.H. Under normal drying conditions, may be walked on after 6 hours.

**Cleaning:** Clean tools, hands and equipment with warm soapy water before the material has dried. Material that has dried is difficult to remove, remove while fresh.

**Limitations:** Do not use AF300 membrane below 40° F (4° C); do not allow membrane or substrate to be below 40° F (4° C) for the first 72 hours after application. Cool and wet weather may delay drying time of AF300 membrane. Do not leave AF300 unprotected or exposed to weather for more than 30 to 72 hours. Do not use membrane as an adhesive or wear surface, membrane must be covered with ceramic or stone tile. Maximum amount of moisture in the concrete substrate using a calcium chloride test should not exceed 5 lbs/1,000 sq.ft.

## 6. AVAILABILITY

PROFLEX® Products are available nationwide.

To locate PROFLEX® products in your area, please contact:

Phone: 877-577-6353

Website: [www.proflex.us](http://www.proflex.us)

## 7. WARRANTY

5 year, 10 year and Limited Lifetime warranties are available. Contact PROFLEX® Technical Support for specific warranty information. PROFLEX® warrants that this product meets applicable ANSI standards in force at the time of manufacture.

## 8. MAINTENANCE

None required, but installation performance and durability may depend on properly maintaining products supplied by other manufacturers.

## 9. TECHNICAL SERVICES

Technical assistance

Information is available by calling the Technical Support

Toll Free: 877-577-6353

Fax: 863-937-9624

Technical and safety literature

To acquire technical and safety literature, please visit our website [www.proflex.us](http://www.proflex.us)

## 10. FILING SYSTEM

Division 9