

## 1. PRODUCT NAME

MSI (Mud Set Installation)

## 2. MANUFACTURER

PROFLEX® Products, Inc.  
1603 Grove Ave  
Haines City, FL 33844  
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® MSI is a reinforced portland cement based thick-bed mortar that is specially formulated to control shrinkage. MSI is designed to be used in conjunction with PROFLEX® elastomeric crack-isolation membranes, PROFLEX® polymer modified thin set mortars meeting ANSI 118.11. These components work together to ensure a superior bond of tile and stone finish surfaces unmatched by other manufacturers. This system is designed to assist installers that are installing larger tile and stone as well as ungagged stone, slate, marble, and granite (not water sensitive stones). Designed installation from 1/2" up to 4" over PROFLEX® membranes. The system can be applied to floors, countertops, and sloped shower floors.

### Uses

- Mortar beds over PROFLEX® membranes
- Shower pans and slopes
- Screed leveling beds
- Exterior applications

### Advantages

- Consistent performance
- Single component
- High-strength bond for large format tile and stone installations
- Meets and Exceeds, A108.1A, A108.1B

### Suitable Substrates

- Concrete
- Cement terrazzo
- Cement backer board\*
- Exterior APA Rated Plywood\*\*

\*Consult cement backer board manufacturer for specific installation recommendations and to verify acceptability for exterior use

\*\*Meets or exceeds industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length

### Packaging

MSI Thick Bed Mortar Mix  
50 lb. bag, 56 bags per pallet

### Approximate Coverage for MSI

Coverage per 50 lb. bag, 7 sq. ft. at 1" thickness. DO NOT EXCEED 4" THICKNESS WITHOUT EXPRESSED WRITTEN PERMISSION FROM PROFLEX®

### Shelf Life

Factory sealed bag of this product are guaranteed to be of first quality for (1) year if stored off the ground at temperatures >32°F(0°C) and <110°F (43°C)

### Limitations

- Use PROFLEX® Epoxy mortar for installing green marble or water sensitive stone and agglomerates
- Note: Surfaces must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection under live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L=span length.
- **DO NOT** bond to particle board, luan, Masonite® or hardwood surfaces.

### Cautions

Consult SDS for more safety information.

- During cold weather, protect finished work from traffic until fully cured.
- Contains portland cement and silica sand. May irritate eyes and skin. Avoid contact with eyes or prolonged contact with skin. In case of contact flush thoroughly with water.
- Do not take internally. Silica sand may cause cancer or serious lung problems. Avoid breathing dust. Wear respirator in dusty areas.
- For white and light-colored marbles use PROFLEX® white thinset mortars.

### 4. TECHNICAL DATA

#### *MSI Portland cement based thick-bed mortar mix with various sized aggregates & special fiber reinforcement*

<b>Working Time</b>	30 minutes
<b>Compressive Strength</b>	4015 psi 7 days - 7950 psi after 30 days

Robinson Test: "Extra Heavy." Extra heavy and high impact use in food plants, dairies, breweries and kitchens.

### 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. Installer must verify that deflection under all live, dead and impact loads of interior plywood floors does not exceed industry standards of L/360 for ceramic tile and brick or L/480 for stone installations where L=span length. Substrate preparation should be completed following ANSI A108.1.

#### **Movement Joints**

Expansion joints shall be provided through the tile work from all construction or expansion joints in the substrate. Follow ANSI specification A108.01– 3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints — Vertical & Horizontal" . Do not cover expansion joints with mortar

#### **Mixing**

Use cool, potable water, clean tools and a clean container. Add just enough dry mix to liquid to produce a lump free, dry consistency and workability to enable a maximum compaction during tamping.

#### **Application**

Before placing MSI, apply bond coat of PROFLEX® ANSI 118.11 thinset mortar. While the bond coat is still wet spread MSI mortar and compact well. If placing tile immediately, apply a bond coat of PROFLEX® ANSI 118.11 thinset mortar to back of tile. While the coat is wet and sticky, place the tile and tamp well into place. Do not let bond coats dry.

#### **Cleaning**

While wet, mortars can be washed from tools with water.

### 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

PROFLEX® Products, Inc. offers a limited warranty for this product when used in accordance with printed specifications. A copy of the limited warranty can be obtained by calling technical services at 877-577-6353 or visiting [www.proflex.us](http://www.proflex.us)

### 8. MAINTENANCE

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

### 9. TECHNICAL SERVICES

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