

## 1. PRODUCT NAME

SIM Crack KIT

## 2. MANUFACTURER

PROFLEX® Products, Inc.  
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## 3. PRODUCT DESCRIPTION

PROFLEX® SIM Crack KIT is an elastomeric membrane kit specially designed to be used under approved thinsets, mortars, adhesives, and is typically used to bridge existing cracks up to 3/8" in flooring surfaces. SIM Crack KIT is ideal for making small repairs to substrates without the time and expense of applying PROFLEX® membrane to an entire substrate.

### Features

- Ideal for bridging existing crack in a substrate up to 3/8"
- Easy to apply; primer, peel, stick
- Install flooring after application with no additional waiting time

### Suitable Substrates

- Concrete
- Cured Mortar beds
- Cement terrazzo
- Exterior-grade plywood
- Cement backer-board
- Other substrates, contact Technical Support.

### Packaging

[1] 18" x 50' roll of PROFLEX® KIT, 75 sq. ft. roll  
[1] Quarts, PR11 Interior / Exterior Primer  
[1] Primer Applicator Brush

### Cautions and Limitations

- The PROFLEX® SIM Crack KIT is designed to repair existing cracks in a substrate. Applications requiring moisture vapor barrier or sound reduction, PROFLEX® must be applied to entire substrate.
- Due to the nature of how the SIM Crack KIT is used, PROFLEX® warranties are not applicable to this product.
- Not for use over expansion joints (structural design joints) or structural (out-of-plane) movement cracks. Use of this product does not eliminate the need for movement joints, including perimeter joints within the tile surface. Movement joints shall be installed within the current industry standards.
- Not recommended for use on concrete floors when hydrostatic pressure is present. PROFLEX® recommends testing the substrate prior to installation of product using a Calcium-Chloride (CaCl) test kit, and/or concrete test for relative humidity (Rh).
- Impervious tile (less than 0.5% absorption) may require a 48-hour cure prior to grouting. The mortar will be sandwiched between two non absorptive materials and will require additional cure time.
- Cooler weather will also increase set time.
- Protect primers from freezing.
- This product should not be stored in direct sunlight.

#### 4. TECHNICAL DATA

Property	Test Method	Result
Total Thickness		40 mil.
Fabric Thickness		6 mil.
Elongation	ASTM D882	350% min.
Tensile MD	ASTM D1682	1270 psi
Pliability	ASTM D146	Pass-25
Adhesion to Plywood	ASTM D1790	8 lb/in.
Adhesion to Primed Concrete	ASTM D903	10 lb/in.

#### 5. INSTALLATION

##### **Surface Preparation of Selected Substrates**

Concrete Substrates Concrete shall be in place a minimum of 28 days. Concrete shall be installed in compliance with industry standards, and concrete manufacturer's instructions. The surface shall have a smooth finish and be free from voids, sharp protrusions, and loose aggregate. Substrate temperatures should be between 40oF and 90oF Concrete shall be structurally sound, dry, clean, and free of dirt, oils, grease, loose peeling paint, concrete sealers or curing compounds, cement laitance, and other similar bond inhibiting materials. Rough or uneven surfaces should be made smooth with a Latex Portland cement underlayment to provide a wood float or better finish. Do not level with asphalt based products. Concrete should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5 # per 1000sqft-24hours. Existing joint openings larger than 3/16" must be prepared and filled with an approved caulking or sealant prior to the application of PROFLEX®.

##### **Plywood Substrates**

Plywood must be a minimum of two (2) layers 5/8" exterior grade plywood. Plywood shall be securely fastened in accordance with industry standards. Maintain a 1/8" gap between plywood sheets and all surfaces they abut. Joints in the top layer should be offset from the joints on the bottom layer. It is the responsibility of the installer to verify the deflection of the floor structure and sub-floor does not exceed L/360 of the span under combined live or dead loads. The substrate should be tested for both moisture vapor transmission and hydrostatic pressure, by use of a Calcium-Chloride (CaCl) test. Consult technical support if test readings indicate a reading greater than 5 # per 1000sqft-24hours

##### **Other Substrates**

Contact technical support at 877-5PROFLEX (877-577-6353) or at [www.proflex.us](http://www.proflex.us), prior to installing.

##### **Installation of PROFLEX® Membranes**

**For floors, Interior applications, Ceramic Tile, Porcelain Tile, Marble or Stone, Engineered Wood, Hardwood floors.**

**Priming:** Stir or shake Proflex® Primer thoroughly. Apply primer with a long nap roller, brush, or spray applicator. Allow primer to dry satisfactorily (between 20-45 mins; when surface is tacky but does not transfer when touched)

**Note:** The primer does not serve as an adhesive, over-application will increase drying times and may compromise the overall bondability of membrane to the substrate. Membrane application may be done by two methods:

**Method 1:** Fold membrane lengthwise. Peel ½ of the release paper from the leading edge of the membrane and slowly pull the release paper toward you, exposing the tacky surface of the membrane and carefully attaching the membrane onto the primed surface, avoiding wrinkles and bubbles.

**Method 2:** Roll up ½ of membrane, leaving the other half unrolled. Cut release paper from the portion of the membrane and slowly pull the release paper toward you, exposing the tacky surface of the membrane and carefully attaching the membrane onto the primed surface, avoiding wrinkles and bubbles. Repeat the procedure with the unrolled portion of the membrane. Immediately after installation, apply firm pressure to insure good contact with the surface. Work from the center of the membrane to the edges.

Bubbles and wrinkles should be slit with a razor type blade and flattened smooth. Protect exposed membrane from dirt, traffic, and harmful elements until flooring is installed, grouted, and cured.

### **Setting Materials**

All mortars and thinsets must meet or exceed ANSI 118.11. Urethane wood adhesives may be used for wood installations, consult manufacturer for product suitability and approval for use with Proflex elastomeric membranes. Consult selected mortar or thinset manufacturer for product suitability and approval for use with Proflex elastomeric membranes. Use appropriate notched trowel for application of setting materials in compliance with ANSI, TCNA, MIA, NWFA, and setting materials guidelines and recommendations. Visit our website at [www.proflex.us](http://www.proflex.us) and click our link listing setting materials that have been approved for use with PROFLEX®.

### **Finish Surface Installation**

Apply finish flooring in compliance with the publications listed under installation instructions, for methods of installation over crack-isolation membranes. Do not install any defective, damaged, or any finish flooring surface for its intended use. The installation of this product does not eliminate the need for movement joints, including perimeter joints with a tiled surface. Perimeter expansion of ¼ must be maintained at all times. Use Proflex PIB (Perimeter Isolation Barrier) to assist in maintaining the expansion gap. Consult the TCNA handbook for other movement joint applications. The product is not for use over expansion joints, or structural (out-of-plane) movement cracks. Impervious tile (less than 0.5% absorption may require a 48-hour cure prior to grouting. The mortar will be sandwiched between two non-absorptive materials and will require additional cure time.

### **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**

Due to the nature of how the SIM Crack KIT is used, PROFLEX® warranties are not applicable to this product.

### **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