



# PRO-STICK 50

2022-04-05

## 1. PRODUCT NAME

PRO-STICK 50

## 2. MANUFACTURER

PROFLEX® Products, Inc.

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## 3. PRODUCT DESCRIPTION

PROFLEX® PS50 (PRO-STICK 50) is a (ANSI 118.11) latex modified, medium bed mortar composed of sand, cement, and resins used to adhere a variety of tile surfaces, natural stone, marble, and granite, to approved substrates. Specially formulated to hold large format tiles and stone surfaces in place on vertical surfaces, and reduces unevenness caused by setting tile on horizontal surfaces. PS50 is applied in thickness from 3/16 to 3/4 inches to adhere marble, granite, and tile, plaster, drywall, concrete, and masonry surfaces. Designed to set tiles vertically of up to 5 lbs. per sq. ft.. (Larger sized units must be field tested to determine suitability).

### **Uses**

*For installation of:*

- Ceramic tile
- Pavers
- Quarry tile
- Porcelain tile
- Clay bodied tile
- High bottom lugged life
- Marble
- Granite
- Mosaic
- Large format tiles
- Vertical tile installations up to 5 lbs. per sq.ft.

*For installation over:*

- Tile backer board
- Plumb and true masonry
- Properly cured and finished concrete
- Gypsum plaster
- Gypsum block or gypsum board (dry areas – walls only)
- Cured Portland cement mortar
- Exterior grade plywood
- Plastic laminates
- Masonry surfaces



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## Advantages

- Ready to mix product without need for additives, high strength for a variety of bonding applications. Extended open and working time. **ANSI A118.1, A118.4, A118.11, and ANSI A108.5 compliant.**

## Coverage

Coverage will vary with condition of substrate. Required trowel size will vary with the tile size, type and substrate uniformity. Select the trowel size that will ensure 100% coverage. Figures below are presented only as guidelines.

- $\frac{3}{4}$ " x  $9\frac{1}{16}$ " x  $\frac{3}{8}$ " U-Notch, yields 34- 38 sq. ft.
- $\frac{1}{2}$ " x  $\frac{1}{2}$ " x  $\frac{1}{2}$ " Square Notch, yields 40 - 50 sq. ft.
- $\frac{1}{4}$ " x  $\frac{3}{8}$ " x  $\frac{1}{4}$ " Square Notch, 70 - 80 sq. ft.

**Packaging:** 50 lb. bag, 56 bags per pallet

## 4. TECHNICAL DATA

### Typical Performance Properties

| Shear Strength       | 7 days (psi) | 28 days (psi) |
|----------------------|--------------|---------------|
| Quarry Tile          | 250-300      | 550-600       |
| Mosaic Tile          | 250-300      | 350-400       |
| Glazed Wall Tile     | 400-450      | 450-500       |
| Compressive Strength | 4,000-4,500  | 6,000-6,500   |
| Adjustability        | 15 minutes   |               |
| Open Time            | 60 minutes   |               |
| Final Set            | 6-8 hours    |               |

Standards: PRO-STICK 50 conforms to ANSI A118.1, A118.4, A118.11, A118.15 and ANSI A108.5.

## 5. INSTALLATION

### Surface Preparation

Surfaces to receive PS50 must be clean and dry. Coatings, sealers, curing agents, and loose material must be removed prior to installation. All substrates must be secure and stable. For applications using exterior grade plywood, a gap of 1/8 inch must be maintained between sheets. Wood flooring must be a minimum of one inch thick APA plywood. Deflection of the plywood substrate due to live or dead loads must not exceed 1/360 of the span. Increased thickness and strengthening of the subfloor may be required. Applications using exterior grade plywood are for interior uses not subjected to water. Plywood must be Group One, Exterior Grade, CC or better and must be installed according to TCNA F150.

### Mixing

Add PS50 to approximately 5½ to 6½ quarts of clean potable water and mix to a thick trowelable consistency. Mix at low speed to avoid entraining excess air into the material. Let the material slake for 10 minutes and remix prior to use. Do not add additional water to retemper material.

### Application

Scratch in a small amount of material onto substrate to insure proper bond, then apply additional material with a suitable trowel. It is important when adhering marble and granite that 100% coverage is obtained. When installing irregularly sized marble and granite units, back- buttering each piece and setting, using a large notched trowel is recommended. This will maximize bonding area and improve the evenness of the finished surface. Set the tile in the material with enough force to insure 100% contact and twist tile slightly. Ten minutes after the tile is set, do not adjust, move, or put pressure on the tile. Only spread enough material that can be covered with tile within 15 minutes. Remove unhardened mortar with water. Once mixed, mortar can be used for up to 4 hours. For



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applications over cement backerboard, adhere backerboard according to backerboard manufacturer's recommendation using PS50 applied to the plywood substrate. For applications over existing ceramic tile, plastic laminate, vinyl flooring (non-asbestos), or VCT residue, roughen surface with coarse sandpaper or other abrasive. Clean to remove loose material.

## ***Cleaning***

Immediately after use, clean with water. Protect other surfaces from contact with material.

## ***Curing***

Under normal conditions grouting may be performed after the dry set mortar has cured 24 – 48 hours.

**CAUTION:** Eye and skin Irritant. Read all precautions and instructions prior to using. Avoid inhalation of product. Keep out of reach of children and pets

## **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**

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