

# PRIMER STX 50™

## SELF-LEVELING UNDERLAYMENT PRIMER FOR POROUS SURFACES

### DESCRIPTION

PRIMER STX 50™ is a polymer latex liquid used as a primer before self-leveling products are applied. It is an aqueous dispersion of copolymer latex particles that improves the bond between a properly prepared concrete substrate and self-leveling underlayments.

### APPLICATIONS

Suitable for use on all interior residential, commercial, and institutional applications

Use as a bonding agent between multiple lifts of self-leveling underlayments

May be used as a sealer on porous substrates

### ADVANTAGES

Low odor and no VOC's

Easy application and quick drying

Excellent coverage and cost effective

Non-flammable, non-toxic, non-explosive

Will not contribute to the growth of mold or mildew

No dangerous emissions or irritating fumes

Environmentally friendly. May be LEED eligible; visit [www.penetronsp.com](http://www.penetronsp.com) for LEED contributions document

### SHELF LIFE / STORAGE

12 months from the date of manufacture, when unopened, undamaged original container is properly stored in a cool, dry place, unexposed to moisture and sunlight. Always tightly reseal container after use. DO NOT ALLOW TO FREEZE!

### PACKAGING

1-gallon (3.8-l) pails; 5-gallon (19-l) pails

### TECHNICAL DATA

**Density:**

1.07 kg/l (8.9 lb/gal)

**Application temperature range:**

50-90°F (10-32°C)

**Drying time:**

1-3 hours at 70°F (21°C)

**Color:**

White thick liquid (dries clear)

**VOC:**

None

**Approximate coverage:**

300-400 sq ft/gal (7.4-9.8 m<sup>2</sup>/l)

Diluted 1:1 by volume with potable water for normally absorbent concrete.

**NOTE:** Cooler temperatures, inadequate ventilation and higher humidity can extend drying times. All data derived from tests under laboratory conditions; field conditions may yield slightly different results.

### DIRECTIONS FOR USE

**Surface preparation:**

Subfloor preparation will vary depending upon the floor to be covered. Concrete floors, cutback and adhesive residue, wooden surfaces and other porous surfaces are typical substrates that must be cleaned and primed before self-leveling products are applied. Surfaces must be clean, sound, dry, free of oil, gypsum compounds, wax, grease, sealers, coatings, curing compounds, urethane, paint, asphalt, dirt, loose surface material or any contaminant that will act as a bond breaker. Weak concrete surfaces must be removed to solid sound concrete by mechanical means, such as, chipping, shot-blasting, grinding or scarifying. Acid etching or chemical cleaning is not acceptable. Remove all dust by sweeping and vacuuming. Adhere to all product limitations and, if unsure about a particular application, please contact Penetron Specialty Products Technical Support.

**NOTE:** Proper bond and preparation are crucial in obtaining a successful underlayment installation. The installing contractor is responsible for ensuring substrate is properly prepared prior to application of PRIMER STX 50™. DO NOT apply over lightweight or gypsum based concrete or non-porous surfaces.

**Mixing:**

All materials should be stored at 50-80°F (10-27°C) 24 hours prior to installation. Agitate pail and thoroughly mix immediately prior to use. PRIMER STX 50™ is mixed 1:1 by volume with potable water.

# PRIMER STX 50™

## Installation:

The diluted PRIMER STX 50™ is uniformly spread on normally absorbent concrete at a coverage rate of 300-400 sq ft/gal (7.4-9.8 m<sup>2</sup>/l) by aggressively working the material into the surface using a clean push broom. Avoid leaving any puddles. Apply when air and substrate temperatures are between 50-100°F (10-38°C). For temperatures outside this range, contact Penetron Specialty Products Technical Support for additional guidelines. Highly absorbent concrete may require 2 applications to seal the surface, thereby avoiding the development of bubbles and pinholes in the self-leveling underlayments. Apply the first coat of PRIMER STX 50™ diluted with 3 parts water. Let completely dry and install a second coat mixed 1:1 with water. Let dry, before installing the self-leveling underlayment. Primed floors must be kept clean, dry, and protected from abrasion. Self-leveling underlayments must be installed within 24 hours after priming.

**NOTE:** For non-porous concrete, epoxy, moisture mitigation systems, wood, terrazzo, sheet vinyl, well-bonded VCT/VAT, ceramic/quarry tile or cutback adhesive residue, PRIMER STX 100™ is recommended.

Contact Penetron Specialty Products Technical Support for additional information and/or view the installation videos, which can be found on the Penetron Specialty Products website: [www.penetronsp.com](http://www.penetronsp.com).

## CLEAN UP

Clean all tools and equipment with water immediately after use, prior to material hardening.

## SPECIAL CONSIDERATIONS

- Penetron Specialty Products recommends installing a test area, ensuring suitability of PRIMER STX 50™ for intended use
- PRIMER STX 50™ is not a vapor barrier
- Do not use on asphalt
- DO NOT apply over lightweight or gypsum based concrete or non-porous surfaces
- Do not install on water-based soluble adhesive residue
- Substrate must have a minimum direct tensile bond test reading of 72 psi (0.5 MPa) per ASTM C1583
- Do not allow PRIMER STX 50™ to freeze or use below 50°F (10°C)

## JOB MOCKUPS

Penetron Specialty Products recommends that when our products are used in any application or as part of any system that includes other manufacturers' products, the installer and/or design professional shall test all the system components collectively for compatibility, performance and long-term intended use in accordance with pertinent and accepted industry standards prior to any installation. Written documentation of the tests performed shall be satisfactory to the design professional and installer. Test results must include the means and methods of application, products used, project specific conditions being addressed, and standardized tests performed for each proposed system or variation.

## SAFE HANDLING INFORMATION

Before using this product, review the PRIMER STX 50™ Safety Data Sheet (SDS), which can be found on the Penetron Specialty Products website: [www.penetronsp.com](http://www.penetronsp.com). Avoid contact with eyes and wear suitable protective eye wear. Avoid prolonged or repeated contact with skin. Wear gloves and suitable protective clothing. Do not breathe dusts or vapors. In case of insufficient ventilation, wear respiratory equipment. For additional information regarding first aid and emergency procedures, refer to the product Safety Data Sheet (SDS).

## Waste disposal:

This product, when discarded or disposed of, is not listed as a hazardous waste in federal regulations. Dispose in a landfill in accordance with local regulations.

KEEP OUT OF REACH OF CHILDREN

**WARRANTY:** PENETRON SPECIALTY PRODUCTS INC. warrants that the products manufactured by it shall be free from material defects and will conform to formulation standards and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON SPECIALTY PRODUCTS INC. shall be limited to replacement of the material proven to be defective and PENETRON SPECIALTY PRODUCTS INC. shall in no case be liable otherwise or for incidental or consequential damages. **PENETRON SPECIALTY PRODUCTS INC. MAKES NO WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED.** User shall determine the suitability of the product for its intended use and assume all risks and liability in connection therewith.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of Penetron Specialty Products under normal environmental and working conditions. Because each project is different, PENETRON SPECIALTY PRODUCTS INC. cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.

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