

# PRIMER STX 100™

MULTI-PURPOSE PRIMER FOR POROUS AND NON-POROUS SURFACES

## DESCRIPTION

PRIMER STX 100™ is a premium concentrated acrylic primer for use over various interior substrates, including concrete, sheet vinyl, well bonded VCT/VAT, cutback adhesive residue, gypsum underlayment, terrazzo, epoxy floor coatings, wood, ceramic, quarry tile, and metal. Its unique ability to bond to both porous and non-porous substrates makes it ideal for varying jobsite conditions. PRIMER STX 100™ is very easy to use; it creates an extremely tenacious bond to the substrate and reduces surface porosity.

## APPLICATIONS

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

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

Can be used as a primer for porous or non-porous substrates

## ADVANTAGES

Excellent alkali resistance

Can be applied to a variety of substrates

High solids content, very low odor

Non-flammable, non-toxic, non-explosive

Water-based and no VOC's

Low particle size for excellent penetration

Can be applied using 1:1:1 mixing method

Will bond tenaciously to any well bonded and clean substrate

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

### Application temperature range:

50-80°F (10-27°C)

### Drying time:

1-3 hours

### Color:

Sky blue; dries translucent blue

### VOC:

None

### Approximate coverage:

Please refer to the "Installation" section for estimated coverage rates.

**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 100™.

### Mixing:

All materials should be stored at 50-80°F (10-27°C) 24 hours prior to installation. Agitate and thoroughly mix the PRIMER STX 100™ immediately prior to use. When diluting, use only clean potable water.

### Installation:

For specific product guidelines on priming, please refer to the individual Product Data Sheets. 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.

**Application methods:** Apply using a 3/8" nap roller for non-porous surfaces and clean push broom for porous substrates.

# PRIMER STX 100™

## Highly-absorbent concrete & gypsum underlayment (2-coat application):

**First coat:** Dilute 1 part PRIMER STX 100™ to 3 parts clean water and mix thoroughly prior to use. Pour onto the floor surface and disperse liberally by aggressively working the material into the surface using a clean push broom. Leave no bare spots and broom out any puddles or excess PRIMER STX 100™. Allow the first coat to dry clear before applying second coat (minimum 1 hour in between coats).

**Second coat:** Dilute 1 part PRIMER STX 100™ to 1 part clean water and mix thoroughly prior to use. Repeat application steps listed above and allow to dry before installation of self-leveling underlayment (minimum 1-3 hours).

**Coverage:** 200 sq ft/gl (4.9 m<sup>2</sup>/l) of diluted mix per first and second coat.

**Standard concrete (1-coat application):** Dilute 1 part PRIMER STX 100™ to 1 part clean water and mix thoroughly prior to use. Pour onto the floor surface and disperse liberally by aggressively working the material into the surface using a clean push broom. Leave no bare spots and broom out any puddles or excess PRIMER STX 100™. Allow to dry clear before applying topping application (minimum 1-3 hours).

**Coverage:** 200 sq ft/gl (4.9 m<sup>2</sup>/l) of diluted mix.

**Non-porous substrates (1-coat application):** Epoxy, moisture mitigation systems, wood, terrazzo, sheet vinyl, well-bonded VCT/VAT, ceramic/quarry tile, cutback adhesive residue. Apply PRIMER STX 100™ to substrate and disperse using a 3/8" nap roller, leaving no bare spots. Broom or brush out any puddles or excess PRIMER STX 100™. Allow to dry to a clear, translucent blue before topping application (minimum 1-3 hours).

**Coverage:** 300-400 sq ft/gl (7.4-9.8 m<sup>2</sup>/l). Over very smooth epoxy, coverage could be as much as 600 sq ft/gl (14.7 m<sup>2</sup>/l).

**1:1:1 priming option:** Mix equal parts by volume of PRIMER STX 100™, water and self-leveling underlayment powder. While continuously mixing to maintain a homogenous consistency, pour onto substrate and brush (open bristle push broom) as thin as possible leaving no thick build-ups. Allow PRIMER STX 100™ to dry (minimum 1 hour, maximum 24 hours).

**Coverage:** 200 sq ft/gl (4.9 m<sup>2</sup>/l) of combined mix.

**NOTE:** Primed floors must be kept clean, dry, and protected from abrasion. Self-leveling underlayments must be installed within 24 hours after priming.

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 100™ for intended use
- PRIMER STX 100™ is not a vapor barrier
- Do not use on asphalt
- Substrate must have a minimum direct tensile bond test reading of 72 psi per ASTM C1583
- Do not allow PRIMER STX 100™ 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 100™ 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 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.

**PENETRON SPECIALTY PRODUCTS INC.**

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