

**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.

**RECOMMENDED FOR**

- ▶ 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 joints
- ▶ 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.

**TECHNICAL CHARACTERISTICS**

<i>Application Temperature Range</i>	10 – 27 °C (50 – 80 °F)
<i>Drying Times</i>	1 – 3 hours
<i>Color</i>	Sky blue (wet) Translucent blue (dried)
<i>VOC</i>	None

**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 HELLAS S.A. 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.



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**Mixing:** All materials should be stored at 10-27°C (50-80°F) 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 10-38°C (50-100°F). For temperatures outside this range, contact Penetron PENETRON HELLAS S.A. 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.

**Highly Absorbent Concrete & Gypsum Underlayment (2 Coat Application):**

**First Coat:** Dilute 1 part of PRIMER STX 100™ to 3 parts clean water and mix thoroughly prior to use. Pour on the floor substrate and disperse liberally with exploded tip broom. Leave no bare spots and broom out any puddles or excess primer. Allow the first coat to dry clear, before applying second coat (minimum 1 hour in between coats).

**Second Coat:** Dilute 1 part of PRIMER STX 100™ to 1 part of clean water. Mix thoroughly prior to use. Repeat application steps listed above and allow to dry before installation of topping (minimum 1 – 3 hours).

**Coverage:** 4,9 m<sup>2</sup>/L (200 ft<sup>2</sup>/gal) of diluted mix per coat.

**Standard Concrete (1 Coat Application):**

Dilute 1 part of PRIMER STX 100™ to 1 part of clean water and mix thoroughly prior to use. Pour on the floor substrate and disperse liberally with exploded tip broom. Leave no bare spots and broom out any puddles or excess PRIMER STX 100™. Allow the PRIMER to dry clear, before applying topping application (minimum 1-3 hours).

**Coverage:** 4,9 m<sup>2</sup>/L (200 ft<sup>2</sup>/gal) 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:** 7,4-9,8 m<sup>2</sup>/L (300-400 ft<sup>2</sup>/gal). Over very smooth epoxy, coverage could be as much as 14,7 m<sup>2</sup>/L (600 sq ft/gal).

**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 apply by brush, (open bristle push broom), squeegee or flat spatula, as thin as possible leaving no thick build-ups. Allow mix to dry (minimum 1 hour, maximum 24 hours).

**Coverage:** 4,9 m<sup>2</sup>/L (200 ft<sup>2</sup>/gal) 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 HELLAS S.A. Technical Support for additional information.

**CLEAN UP**

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

**SPECIAL CONSIDERATIONS**

Penetron PENETRON HELLAS S.A. 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 0,5 MPa per ASTM C1583.

Do not allow PRIMER STX™ 100 to freeze or use below 10°C (50°F).

**JOB MOCKUPS**

PENETRON HELLAS S.A. 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.

**Waste disposal:** This material must be discarded or disposed of in accordance with all local, state, provincial, and federal regulations. The generation of waste should be avoided or minimized, wherever possible. KEEP OUT OF REACH OF CHILDREN.

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**PACKAGING**

PRIMER STX 100™ is available in 3,8 L (1 gal) pails and 19 L (5 gal).

**STORAGE / SHELF LIFE**

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!

**SAFE HANDLING INFORMATION**

Use rubber gloves, during mixing and application. Use goggles during spraying and overhead applications. If eye contact occurs, flush immediately and repeatedly with fresh water, then contact physician without delay. Wash exposed skin areas with soap and water. For further information please refer to Safety Data Sheet. PENETRON HELLAS S.A. has recently updated Safety Data Sheet on the safe use of PENETRON® products. Each Safety Data Sheet contains health and safety information for the protection of your employees and your customers. KEEP OUT OF REACH OF CHILDREN.

**WARRANTY - DISCLAIMER**

PENETRON HELLAS S.A. warrants that its products are manufactured under certified ISO Standard procedures, are of excellent quality and shall be free from material defects and contain all components in their proper proportion. Should any of the products be proven defective, the liability to PENETRON HELLAS S.A. shall be limited to replacement of the material proven to be defective, since the standard application procedures have been met and the suitability of the product for the particular application has been proven. PENETRON HELLAS S.A. makes no warranty as to merchantability of fitness for a particular purpose. User, after contacting the distributor of the product, shall determine the suitability of the product for his intended use and assume all risks and liability in connection therewith. While every care has been taken, the information provided in this product's data sheet make no part of any contract. All recommendations, technical data and test data contained in this product's data sheet are based upon the results of control laboratory tests or in actual field tests. However, PENETRON HELLAS S.A. makes no warranty of any kind, concerning this data. In any case, this data is given in good faith based in the PENETRON HELLAS S.A. experience, till the publication of this sheet. Due to variance in storage, handling and applications of the materials, PENETRON HELLAS S.A. accepts no liability for the results obtained. It is suggested that potential users try small applications to determine the suitability of each individual product for their specific requirements. The users should always refer to the most recent edition of the product's data sheet. PENETRON HELLAS S.A. may particularly differentiate its versions of the product's data sheet compared with those of PENETRON INTERNATIONAL LTD or respective PENETRON companies worldwide. These changes are due to text formatting, different application weathering and procedures or different product names and aim at the optimal consumer information.

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