

SURFIX™ SCREED SET

POLYMER-MODIFIED, RAPID-SETTING SCREED AND RAMPING MORTAR

DESCRIPTION

SURFIX™ SCREED SET is a polymer-modified, rapid-setting, interior and exterior screed mortar ready to install with only the addition of water. It is ideal for using where ramping transitions or creating screed sloped surfaces are required. Its creamy consistency allows for ease of placement and finishing, while the accelerated cure time enables the SURFIX™ SCREED SET to be put into service much sooner than conventional cement-based mortars.

APPLICATIONS

- Screed mortar projects
- Deck and ramp repairs
- Uneven floor transitions
- Sloping balconies and washrooms
- Wet area floors to drain properly

ADVANTAGES

- Accepts most finish flooring in as little as 12 hours
- Can be installed from tapered edge to 3" (7.6 cm) neat, may be shaved
- Over 3" (7.6 cm) when extended with 3/8" (10 mm) pea gravel, 20 lb (9.1 kg) by weight
- Work time is 15-20 minutes, set time is approximately 30 minutes
- Shrinkage compensated, one component, just add clean water
- Will not contribute to the growth of mold or mildew
- No dangerous emissions or irritating fumes
- Environmentally friendly, may be LEED eligible. Contact Penetron Specialty Products Technical Support for details
- Wide range for placement, from semi-stiff to semi-flowable

SHELF LIFE / STORAGE

12 months from the date of manufacture, when unopened bags are properly stored in a cool, dry place, unexposed to moisture and sunlight.

PACKAGING

50-lb (22.7-kg) bags

TECHNICAL DATA

Compressive strength (ASTM C109):

3 hours	2000 psi (13.8 MPa)
1 day	3000 psi (20.7 MPa)
28 days	4000 psi (27.6 MPa)

Approximate coverage (Yield) per 50-lb (22.7-kg) bag:

Up to 6 ft² (0.56 m²) at 1" (2.5 cm)

Color:

Gray

Installation thickness:

Tapered edge up to 3" (7.6 cm) neat
Over 3" (7.6 cm), when extended with 3/8" (10 mm) pea gravel, 20 lb (9.1 kg) by weight

Application temperature range:

50-95°F (10-35°C)

NOTE: Above 85°F (29°C), use ACI Hot Weather Application Guidelines.

Set (ASTM C191; 70°F (21°C), 50% RH):

Working time	30 minutes
Final set	60 minutes

Accepts coverings (70°F (21°C), 50% RH):

Standard covering, such as VCT, ceramic tile, carpet and coatings can be placed in as little as 12 hours.

NOTE: Cooler temperatures, inadequate ventilation, higher humidity, substrate porosity and thickness can extend drying times. Some coverings and adhesives are more moisture sensitive. Ensure the installed mortar is completely dry before installing the selected floor covering or topping material. All data derived from tests under laboratory conditions; field conditions may yield slightly different results.

DIRECTIONS FOR USE

Surface preparation:

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. Mechanically prepare all surfaces to a minimum Concrete Surface Profile (CSP) 5-7, as per International Concrete Repair Institute (ICRI) Guideline No. 310.2-1997. Unsound concrete surfaces must be prepared to solid sound concrete by additional means and methods, as per International Concrete Repair Institute (ICRI) Guideline No. 310.2R-2013 "Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings, Polymer Overlays, and Concrete Repair." Never use acid or mastic removers on any surface where a Penetron Specialty Products material will be applied.

Mixing:

Mix the amount of SURFIX™ SCREED SET that can be placed within 10-15 minutes at minimum 70°F (21°C) by combining 5 qt (4.7 l) of clean cool water to a 50 lb (22.7 kg) bag of powder. High temperatures and over mixing will shorten working time, and cooler temperatures will prolong it.

SURFIX™ SCREED SET

For best results, add powder to liquid while mixing to a lump free, creamy consistency. Use a low-speed 1/2" drill and a mixing wand. Do not re-temper or overwater. When mixing smaller quantities, agitate SURFIX™ SCREED SET first in pails, due to possible settlement.

Installation:

1. Read all installation instructions before proceeding.
2. SURFIX™ SCREED SET can be applied using a trowel or screed, with or without formwork.
3. When placing on a porous substrate, all surfaces should be Saturated Surface Dry (SSD) with no standing water.
4. Apply a scrubcoat to the properly SSD-profiled concrete surface using the SURFIX™ SCREED SET material by adding double the amount of water to create a slurry. Scrub the slurry into the surface using a stiff bristle brush and apply the properly mixed SURFIX™ SCREED SET while the slurry is still wet. Do not apply into a dry scrubcoat slurry mix. If scrubcoat is dry, completely remove to a clean surface and reapply.
5. The maximum thickness neat is 3" (7.6 cm) per lift. For screed applications greater than 3" (7.6 cm) and up to 6" (15.2 cm) in depth, extend the mortar by adding 20-lb (9.1-kg) by weight of clean, washed, SSD, 3/8" non-reactive graded aggregate per 50-lb (22.7-kg) bag of SURFIX™ SCREED SET. Mix water may need to be reduced. Start with 4 qt (3.8 l) of water, pre-mix material, and slowly add gravel. Add additional water, up to 1 qt (0.95 l), as needed to achieve the desired consistency.
6. Alternatively, for interior applications that are moisture free, PRIMER STX 50™ or PRIMER STX 100™ may be used.

NOTE: The SURFIX™ SCREED SET material is extremely versatile and can also be installed using alternate priming methods. Contact Penetron Specialty Products Technical Support for additional information and/or view the installation videos that can be found on the Penetron Specialty Products website: www.penetronsp.com.

Curing:

Do not wet cure. Protect the newly placed material from excessive heat, cold, rain or draft conditions for the first 4 hours. A water-based cure and seal can be applied to reduce premature surface drying.

APPLICATION TOOLS

Mixing pail, mixing paddle, 1/2" heavy duty drill, screed and trowels. A mortar mixer may be used for larger installations.

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 SURFIX™ SCREED SET for intended use
- Do not add any admixtures, sand or cement
- Do not place in lifts
- Protect from vibration, rain, wind, freezing and loading until fully cured
- Do not use for patching asphalt, latex-modified concrete or for vertical surfaces
- SURFIX™ SCREED SET is not a vapor barrier

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 SURFIX™ SCREED SET Safety Data Sheet (SDS) that can be found on the Penetron Specialty Products website: www.penetronsp.com. Avoid contact with eyes and wear suitable protective eyewear. Avoid prolonged or repeated contact with skin. Wear gloves and suitable protective clothing. Do not breathe dust. 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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