

SURFIX™ SLAB SUPPORT GROUT

SLAB SUPPORT GROUT FOR BEDDING PRECAST CONCRETE PANELS

DESCRIPTION

SURFIX™ SLAB SUPPORT GROUT is a non-shrink, high-compressive-strength, non-metallic grout used for placing prefabricated concrete pavements.

APPLICATIONS

Cementitious grout for filling voids
Support precast concrete panels
All-purpose non-structural grouting
Bug hole repairs
Wall rubbing/sacking

ADVANTAGES

Highly fluid - can be pumped through 1¼" (32 mm) grout hole ports
Over 3,000 psi compressive strength in 24 hours
Excellent bond
Special mix design formulated to meet the requirements of precast concrete placement
Non-metallic
Cement-based, non-corrosive, not a chemical concrete
Resists freeze/thaw damage
Environmentally friendly; may be LEED eligible

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

35-lb (15.9-kg) bags

TECHNICAL DATA

Compressive strength (ASTM C109):

1 day	> 3000 psi (21 MPa)
7 days	> 7,000 psi (48 MPa)
28 days	> 9,000 psi (62 MPa)

Approximate coverage (Yield) per 35-lb (15.9-kg) bag:

0.41 ft³ (.012 m³)

Flow (ASTM C 939 (cone) < 15 seconds):

Tested at a flow of 28 seconds using 7 qt (6.6 l) ± 5% water to 35 lb (15.9 kg) powder

NOTE: Test results obtained under controlled laboratory conditions at 73°F (23°C) and 50% relative humidity. Reasonable variations can be expected due to atmospheric and job site conditions.

DIRECTIONS FOR USE

Surface preparation:

All materials should be stored at 40-80°F (4-27°C) 24 hours prior to installation.

NOTE: Always install SURFIX™ DOWEL SET GROUT before SURFIX™ SLAB SUPPORT GROUT.

Mixing:

Ideal mixing temperature at placement is 65-70°F (18-21°C). Hot temperatures will shorten setting time, while cold temperatures will extend setting time.

Hot weather: Keep bagged SURFIX™ SLAB SUPPORT GROUT cool. When necessary, mix the grout using chilled water to extend working time.

Cold weather: Do not use antifreeze or accelerators and keep bagged SURFIX™ SLAB SUPPORT GROUT warm. Combine the warmed material with 90°F (32°C) mixing water.

Mix as close as possible to the area where the material is being used. SURFIX™ SLAB SUPPORT GROUT requires only the addition of clean potable water. Use 7 qt (6.6 l) ± 5% based on ambient conditions and job site situations to a 35-lb (15.9-kg) bag.

Place the potable water into the mixing container and add the grout while mixing. SURFIX™ SLAB SUPPORT GROUT can be mixed in a mortar mixer or by using a paddle attached to a heavy duty 1/2" drill (650 rpm).

Mix for 2-3 minutes to a lump-free consistency. Do not re-temper or overwater.

NOTE: The water quantities shown are approximate and may vary slightly with type of equipment and application conditions.

SURFIX™ SLAB SUPPORT GROUT

Installation:

Install when air and substrate temperatures are 40-100°F (4-38°C). For applications outside this range of temperatures, contact PSP Technical Services.

The purpose of SURFIX™ SLAB SUPPORT GROUT is to fill any small voids that may exist between the slab and the prepared subgrade after the “super-grading” process has been completed.

SURFIX™ SLAB SUPPORT GROUT is installed by pumping into the grout distribution system cast into the underside of each slab. Pump the grout into the lowest of the two connected ports and keep pumping until grout extrudes from the uphill port.

SURFIX™ SLAB SUPPORT GROUT is very fluid, but the grout will slowly disperse beneath the slab, so the port will need to be refilled occasionally until the level ceases dropping in the port. The refilling is easily accomplished by topping off the ports from a pail, pouring the grout directly into the port, or pouring the grout into plastic funnels.

Continue with pumping the SURFIX™ SLAB SUPPORT GROUT into each distribution channel until all the channels in each slab have been grouted. Leave the grout level down 2” (51 mm) from the top of the slab (or remove grout if required) and cap off with SURFIX™ DOWEL SET GROUT.

When grouting slab connectors, the SURFIX™ DOWEL SET GROUT may be driven on by construction equipment and vehicles once it has achieved 2,500 psi (17.2 MPa), regardless of the strength achieved by the SURFIX™ SLAB SUPPORT GROUT.

NOTE: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use. Jobsite mockups are recommended.

CLEAN UP

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

TECHNICAL SUPPORT

For more detailed instructions, alternative application methods, or information concerning the compatibility with other products or technologies, contact the Penetron Specialty Products Technical Department at (631) 941-9700 or email psptechsupport@penetronsp.com.

SPECIAL CONSIDERATIONS

- Do not add any admixtures, sand or cement.
- Do not drive on any slab with any construction equipment or vehicle until the SURFIX™ DOWEL SET GROUT has achieved 2,500 psi (17.2 MPa). This could compromise future efficiency of load transfer between slabs.
- All materials should be stored at 40-80°F (4-27°C) 24 hours prior to installation.

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

Penetron Specialty Products maintains comprehensive and up-to-date Safety Data Sheets (SDS) on all its products. Contact Penetron Specialty Products or your local representative to obtain copies of Safety Data Sheets (SDS) prior to product storage or use. 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).

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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