

BEDDING GROUT

Description

ProSpec® Bedding Grout is a non-shrink high compressive strength, non-metallic grout used for placing prefabricated concrete pavements.

Features

- Over 3,500 psi compressive strength in 24 hours
- Special mix design formulated to meet the requirements of the Fort Miller Co. Inc. Super Slab System®
- Excellent bond
- Resists freeze/thaw damage
- High fluid can be pumped through 1 1/4" grout hole ports
- Cement based, non-corrosive, not a chemical concrete
- Non-metallic

Uses

For grouting:

- Ideal for bedding grout for precast concrete roadway panels

Technical Data

Compressive Strength ASTM C 109

1 day	> 3,500 psi (24 mPa)
7 days	> 7,000 psi (48 mPa)
28 days	> 8,000 psi (55 mPa)

Flow (cone) ASTM C 939

<30 seconds

Test results obtained under controlled laboratory conditions.
Reasonable variations can occur due to atmospheric and job site conditions.



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Mixing

1. Mix as close to the area being repaired as possible. ProSpec Bedding Grout requires only the addition of water.
2. Use 7 quarts+/-5% based on ambient conditions and jobsite situations to 35 lbs. bag (41.7%).
3. Place the potable water into the mixing container and then while mixing add the grout.
4. Prospec Bedding Grout can be mixed in a mortar mixer or by using a paddle attached to a heavy duty 1/2" drill (650 r.p.m).
5. Mix for 2-3 minutes to a lump-free consistency.
6. Do not retemper or overwater

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

Application

ProSpec Bedding Grout is a special mix design formulated to meet the requirements of Bedding Grout for use in the Fort Miller Co., Inc. Super Slab System. The purpose of bedding grout is to fill any small voids that may exist between the slab and the prepared subgrade after the "supergrading" process has been completed. Bedding grout is installed by pumping into the bedding 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 exudes from the uphill port. The bedding grout is very fluid, but the grout will take a short while to disperse beneath the slab, so that the port will need to be refilled occasionally until the level ceases dropping in the port. The refilling is easily accomplished by a laborer who tops off the ports from a pail, pouring the grout directly into the port, or into plastic funnels provided by Fort Miller for this purpose. Continue with the pumping of bedding grout into each distribution channel until all the channels in each slab have been grouted. Leave the bedding grout level down 2" from the top of the slab (or remove grout if required) and cap off with ProSpec Slab Dowel Grout.

For Super Slab Systems* installations, follow installation instructions as outline by The Fort Miller Co. Inc. (518) 695-5000 www.fortmiller.com
Patented system by The Fort Miller Company.

Clean up

Use water to clean all tools immediately after use.

Best Performance

Note: Always install Slab Dowel Grout before Bedding Grout. Do not drive on any slab with any construction equipment or vehicle until the Slab Dowel Grout has achieved 2,500 psi [17.2 mPa]. To do so may compromise future efficiency of load transfer between slabs.)

- Do not retemper after mixing
- Do not over water or add other cements or additives
- When grouting slab connectors the ProSpec Slab Dowel Grout may be driven on by construction equipment and vehicles once it

has achieved 2,500 psi (17.2mPa) regardless of the strength achieved by the bedding grout.

- Ideal ambient, surface and material temperatures are in the range of 40° to 100° (4° to 38°C) for mixing and placing.

- Ideal mixed product temperature at placement is 65° to 70°F (18° to 21°C), where the initial setting time is 35 minutes. Hot temperatures will shorten setting time, while cold temperatures will extend setting time.

- Hot Weather: Keep bagged ProSpec Bedding Grout cool. Mix ProSpec Bedding Grout using ice water to extend working time.

- Cold Weather: Do not use antifreeze or accelerators and keep ProSpec Bedding Grout warm. Combine the warmed repair material with 90°F (32° C) mixing water.



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Storage

Keep in cool/dry place unexposed to sunlight and tightly reseal container.

Yield

35 lb. bag = 0.41 cu. ft.

Packaging

35 lb. (16 kg) bag

Unit Weight

120 pcf.

Shelf Life

One year when stored properly in original unopened container. Keep in cool/dry place unexposed to sunlight and tightly reseal container. 35 lbs. (16 kg) moisture resistant bag.

Refer to:

ACI 305 Standard on Hot Weather Concreting

ACI 306 Standard on Cold Weather Concreting

Caution

KEEP OUT OF REACH OF CHILDREN AND ANIMALS. Product is alkaline and may burn or irritate upon contact with eyes or skin. Do not take internally. Use of safety goggles, rubber gloves and dust respirator is

recommended. Avoid prolonged contact with clothing. This product contains crystalline silica. Take measures to contain and reduce dust. Prolonged exposure to crystalline silica may cause silicosis or other serious delayed

lung injury. Avoid breathing dust. For prolonged exposure wear a respirator approved for protection against crystalline silica dust. Crystalline silica has been classified by IARC and NTP as a carcinogen.



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First Aid

In case of eye contact, flush thoroughly with water for at least 15 minutes and SEEK IMMEDIATE MEDICAL ATTENTION. For skin contact, wash thoroughly with soap and water. If swallowed,

SEEK IMMEDIATE MEDICAL ATTENTION. For additional information, call Bonsal American at 704-525-1621 or CHEMTREC at 800-424-9300 or 703-527-3887 outside of the USA.

Refer to Material Safety Data Sheet (MSDS) for further information.

LIMITED 1 YEAR WARRANTY FROM DATE OF MANUFACTURE: Bonsal American warrants that this product and the materials used therein meet or exceed the applicable standards listed and enforced at the time of manufacture. Bonsal American will replace any product or part which proves defective due to quality of ingredients used or due to the manufacturing process itself. This Warranty shall apply only if the product is used in strict accordance with applicable specifications and instructions provided by Bonsal American for its use, and Bonsal American shall not be liable otherwise. Replacement of any defective product, or, at Bonsal American's option, refund of the purchase of any defective product shall be the buyer's sole remedy under this Warranty, and Bonsal American shall in no event be liable for any damages in excess of the purchase price of the defective product. BONSAL AMERICAN SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES INCLUDING LOSS OF PROFITS OF ANY KIND. Product demonstrations are done for illustrative purposes only and do not constitute a warranty or warranty alteration of any kind. This Warranty constitutes the sole warranty given by Bonsal American in connection with this product. No modification of this Warranty in favor of any buyer shall be valid unless given in writing and signed by an officer of Bonsal American. Bonsal American has authorized no person to make or give any other warranties or representation, oral or written on its behalf. IN PARTICULAR, THERE ARE NO IMPLIED WARRANTIES, INCLUDING WITHOUT EXCEPTION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

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