



Shep 1107 Premium Grout

Non-Shrink, Non-Stain, Non-Metallic Grout

Description

Shep 1107 Premium Grout is designed for critical use where high strength, non-staining characteristics and positive expansion are required. It contains only natural aggregate and an expansive cementitious binder. It is extremely flowable, and when cured, appears similar in appearance to concrete.

Primary Applications

- Pumps and fans
- Compressors & motors
- Generators
- Machine bases of all types
- Anchor bolts
- Column baseplates

Features & Benefits

- Non-staining natural aggregate for better appearance
- Excellent bearing
- Flowable and self-leveling
- Compatible with Galvanic Anodes (Fluid)
- High strength
- Appearance of plain concrete
- Does not contain any added chloride ions
- Can contribute to LEED points.

Directions For Use

Important: If the contractor is not familiar with standard grout placement techniques, a prejob meeting is suggested to review the project details unique to the particular job. Contact your local CMC Construction Services representative for additional information.

Mixing Consistency Estimated Water Content*

Fluid	1.2 to 1.25 gal/50 lb bag (4.5 L/22.7 kg)
Flowable	1.0 gal/50 lb bag (3.8 L/22.7 kg)
Plastic	0.9 gal/50 lb bag (3.4 L/22.7 kg)

* Do not add water in an amount that will cause bleeding or segregation. More or less water may be required to achieve a 25 second flow or the desired placing consistency, depending on temperature and other variables. Do not add sand or cement to the grout since this action will change its precision grouting characteristics.

Where Shep 1107 Premium Grout will be placed at a thickness over 2" (50 mm), up to 25 lb (11.3 kg) of pea gravel must be added to each bag of grout. Note that the water demand to achieve a certain flow level of the grout will change.

Placing: Shep 1107 Premium Grout sets more rapidly than plain mortars; therefore, place quickly and continuously. If placing this product in hot weather, use of cold water will increase the working time.

Curing and Sealing: Proper curing procedures are important to ensure the durability and quality of the grout. Wet cure the grout until the forms are stripped. Then, cure the grout with a high solids curing compound.

Clean-Up: Clean tools and equipment with water before the material hardens.

Compliances

- Fully complies with CRD C 621, Corps of Engineers Specification for Non-Shrink Grout.
- Fully complies with ASTM C 1107-05, "Standard Specification for Packaged Dry, Hydraulic-Cement Grout" (nonshrink).

Packaging

Shep 1107 Premium Grout is packaged in 50 lb (22.7 kg) bags and pails. 50 lbs yields 0.45 ft³ (0.013 m³) of fluid grout when mixed with 1.2 gal (4.5 L) of water.

Shelf Life

Two years in original, unopened package.

SHEP 1107 PREMIUM GROUT

PRODUCT INFORMATION ■ TECHNICAL DATA SHEET

Continued on reverse side

Technical Data

Typical Engineering Data: The following results were developed under laboratory conditions.

Flowable Consistency 1.0 gal/50 lb (3.8 L/22.7 kg)

Flow Rate ASTM C 939 & CRD C 621

Flow (flow table) 120%

Compressive Strength ASTM C 109 Modified*

2" (50 mm) cubes

3 days 5,000 psi (34 MPa)

7 days 7,000 psi (48 MPa)

14 days 8,000 psi (55 MPa)

28 days 9,000 psi (62 MPa)

*See ASTM C 107 Section 11.5 & 11.5.1 - 11.5.3

Expansion CRD C 621

3 days 0.01%

7 days 0.06%

14 days 0.06%

28 days 0.06%

Freeze/Thaw Resistance ASTM C 666 Procedure A

300 cycles 97.0%

Fluid Consistency 1.2 gal/50 lb (4.5 L/22.7 kg)

Flow Rate ASTM C-939 & CRD C 621

Flow Cone 20 to 30 seconds

Compressive Strength ASTM C 109 Modified

2" (50 mm) cubes

3 days 4,000 psi (28 MPa)

7 days..... 6,000 psi (41 MPa)

14 days..... 6,500 psi (45 MPa)

28 days..... 7,000 psi (48 MPa)

Expansion CRD C 621

3 days 0.01%

7 days 0.06%

14 days 0.06%

28 days 0.06%

Setting Time ASTM C 191

Initial Set 3 hrs 5 mins.

Final Set 4 hrs 47 mins.

Appearance: Shep 1107 Premium Grout is a free flowing powder designed to be mixed with water. After mixing and placing, the color may initially appear much darker than the surrounding concrete. While this color will lighten up substantially as the concrete cures and dries out, the grout may always appear somewhat darker than the surrounding concrete.

Precautions

- Do not promote bleeding of the grout by adding water.
- Do not use this product at a flow cone rate of less than 20 seconds if checking flow rates on the job site (see CRD C-611 or ASTM C 939 for flow cone method).
- Do not add any admixture or fluidifiers.
- Proper curing is required.
- Do not use material at temperatures that may cause premature freezing.
- Rate of strength gain is significantly affected at temperature extremes.
- Do not allow to freeze until 4000 psi (27.6 MPa) is attained.
- Employ cold weather or hot weather grouting practices as the temperatures dictates.
- Store materials in a dry place.
- Do not use as a topping.
- Add pea gravel when placing at a thickness over 2" (50mm).
- In all cases, consult the MSDS before use.

LIMITED WARRANTY: NOTICE - READ CAREFULLY. CONDITIONS OF SALE.

Manufacturer offers this product for sale subject to, and Buyer and all users are deemed to have accepted, the following conditions of sale and limited warranty which may be varied by written agreement of a duly authorized corporate officer of Manufacturer. No other representative of or for Manufacturer is authorized to grant any warranty or to waive limitation of liability set forth below.

WARRANTY LIMITATION: Manufacturer warrants this product to be free of manufacturing defects. If the product when purchased was defective and was within use period indicated on container or carton, when used, Manufacturer will replace the defective product with new product without charge to the purchaser. Manufacturer makes NO OTHER WARRANTY, either expressed or implied, concerning this product. There is NO WARRANTY OF MERCHANTABILITY. In no case shall Manufacturer be liable for special, indirect or consequential damages resulting from the use or handling of the product, and no claim of any kind shall be greater in amount than the purchase price of the product in respect of which damages are claimed.

INHERENT RISK: MANUFACTURER MAKES NO WARRANTY TO THE PERFORMANCE OF THE PRODUCT AFTER IT IS APPLIED BY THE PURCHASER, AND PURCHASER ASSUMES ALL RISKS ASSOCIATED WITH THE USE OR APPLICATION OF THE PRODUCT.