



803

Construction Grout - SR

DATA SHEET NO. 3600-803

DESCRIPTION

803 Construction Grout – SR is a pre-blended Portland cement grout containing non-ferrous admixtures to counteract plastic and drying shrinkage. Complies fully with ASTM C-827 test specifications for non-shrink Grout. 803 Construction Grout – SR is formulated using admixtures recommended for non-shrink grout by U.S. Corps of Engineers and American Concrete Institute publications. There are no corrosive or unstable ingredients in 803 Construction Grout – SR.

USES

803 Construction Grout – SR is ideal for every phase of structural grouting which includes structural members, bridge seats, machinery bases, crane rails, anchorage systems, underpinning and concrete repairs. Ideal for use where a sulfate resistant grout is required.

Limitations

Structural advantages: *The purpose of non-shrink grout is to harden in full and total contact with all confining surfaces, and to remain permanently stable. 803 Construction Grout – SR ensures total void filling for all various grout consistencies, including the very flowable consistency. The hardened material will remain stable in all atmospheres and conditions that are generally conducive to the stability of good quality air-entrained concrete.*

Advantages of field use: 803 Construction Grout – SR is very versatile in use and may be pumped, packed, or poured. Ambient temperatures during placing may vary from 39°F (4°C) to over 86°F (30°C). At normal temperatures the working time or “pot life” is one full hour, which allows ample time for mixing, transporting, and placing. Slightly accelerated or retarded working time will apply when working in hot or cool conditions respectively. Moderate vibration and agitation of the fresh grout is permitted. Other than conventional concrete curing requirements, no other special measures are necessary to preserve the stability of 803 Construction Grout – SR.

Standards

Complies with the following specifications: ASTM C-827, CRD-C 619 and CRD-C 621.
For a complete specification listing, please contact a technical representative.

Packaging

25 Kg multi-all paper bags

Physical Properties

Color	Slightly darker than normal concrete
Yields	1 bag (25 kg) will yield approximately ½ ft ³ (14,200 cm ³)
Extending	For exceptionally thick sections, [4” (10 cm) and over] 803 Construction Grout – SR should be cut 50% with pea gravel or 3/8” (9.5 cm) crushed stone
Shelf Life	One full year from arrival to customer when stored outside under tarp or in Warehouse (heated or unheated)
Pot Life	One hour at 59-69°F (15-21°C)
Set Time	Flowable mix 5-6 hours at 69°F (21°C)
Compressive Strength	7500 psi, 52 MPa in 28 days

Installation Instructions

- Compressive strength will vary with the amount of mixing water used and with ambient temperatures during curing.
- Specimens for compressive strength should be taken in 2” brass cube molds under total confinement and according to CRD-C 621 procedures.
- The chart below indicates the typical pattern for flowable consistencies and cured at room temperature.
- Less flowable consistencies will exhibit high strengths.

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W. R. MEADOWS OF WESTERN CANADA
38 Rayborn Crescent, St. Albert, AB T8N 5B4
Phone: (780) 458-8773 • Fax: (780) 458-1173

Hampshire, IL / Cartersville, GA / York, PA / Fort Worth, TX
Benicia, CA / Pomona, CA / Goodyear, AZ / Milton, ON /
St. Albert, AB
www.wrmeadows.com

Internal Pressure Development When Confined

As insurance for maximum bearing contact the fresh 803 Construction Grout – SR mortar will exert a slight pressure against vertical confining surfaces as described by ACI and Corps of Engineers recommendations for foundation grout. Sonic testing for this group type (ACI Journal 78-41) indicates superior coverage and bearing contact when compared to all other grout types.

Volume Change on Cure

Within limits specified ASTM C-827 and CRD-C 621.

Curing Requirements

Curing of 803 Construction Grout – SR is important, especially in dry or drafty areas. Cure accordance with CSA A-23 for curing of concrete. If a curing compound is required, apply a curing compound after grout has taken initial set.

Strength and Flow Charts

Flowable Grout

30-45 seconds through flow cone
Approximately 4.5 litres of water per 25 kg bag

1	7	28	90	Days
14	31	45	52	MPa
2000	4500	6500	7500	PSI



Dry-Pack Grout

Zero slump consistency
Approximately 3.5 litres of water per 25 kg bag

1	7	28	90	Days
45	55	62	76	MPa
6500	8000	9000	11000	PSI

For most current data sheet, further LEED information and MSDS, visit www.wrmeadows.com

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