



DATA SHEET NO. 3600-803

803 CONSTRUCTION GROUT - SR

DESCRIPTION

803 CONSTRUCTION GROUT - SR is a pre-blended Portland cement grout containing non-ferrous admixtures to counteract plastic and drying shrinkage. The product complies fully with ASTM C827 test specifications for non-shrink grout. 803 CONSTRUCTION GROUT - SR is formulated using admixtures recommended for non-shrink grout by the 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, including structural members, bridge seats, machinery bases, crane rails, anchorage systems, underpinning, and concrete repairs. The product is Ideal for use where a sulfate-resistant grout is required.

FEATURES/BENEFITS

- Very versatile in use.
- May be pumped, packed, or poured.
- Ambient temperatures during placing may vary from 4° to over 30° C.
- At normal temperatures the working time or pot life is one full hour, which allows ample time for mixing, transporting, and placing.
- Other than conventional concrete curing requirements, no other special measures are necessary to preserve the stability of 803 CONSTRUCTION GROUT - SR.

PACKAGING

25 Kg Bags

COVERAGE

One bag (25 kg) will yield approximately 14,200 cm³ (1.5 ft.³). For exceptionally thick sections, [10 cm (4") and over] 803 CONSTRUCTION GROUT - SR should be cut 50% with pea gravel or 9.5 cm (3/8") crushed stone.

SHELF LIFE

One year from date of manufacture when stored indoors on pallets in a dry, cool area. Do not store product outside.

SPECIFICATIONS

- ASTM C-827
- CRD-C 619
- CRD-C 621

For a complete specification listing, please contact a technical representative.

TECHNICAL DATA

Colour	Slightly darker than normal concrete
Pot Life	1 hour @ 15° - 21° C
Set Time	Flowable mix 5 - 6 hours @ 21° C
Compressive Strength	52 MPa (7500 psi) in 28 days

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 25.4 mm (2") brass cube moulds 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.

Flowable Grout

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

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

Dry-Pack Grout

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

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

Continued...

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APPLICATION

Surface Preparation ... Foundation concrete to receive grout must be roughened, cleaned of all foreign matter and laitance, and thoroughly water saturated. All freestanding water should be blown clear just prior to placing grout.

Application Method ... The mix should contain only enough water to form a cohesive ball when squeezed tightly in the hand. Mixing should be done by hand using a shovel and wheelbarrow or mortar box. Water should be sprinkled over the dry material and turned into the mix thoroughly using a shovel. See water mix ratios above. The mixed grout must be rammed in place with a metal or hardwood tool. Discard mixed grout not rammed in place within one hour of initial preparation.

Extending ... For exceptionally thick sections [4" (101.6 mm) and over], 803 CONSTRUCTION GROUT - SR should be cut 50% with pea gravel or 9.5 mm (3/8") crushed stone.

Curing ... Cure 803 CONSTRUCTION GROUT – SR immediately following application using a suitable curing compound from W. R. MEADOWS, or in accordance with ACI 308. 1100, 1220-WHITE, CS-309™ series, or VOCOMP®-25 from W. R. MEADOWS are recommended. When conditions exist for rapid early water loss, the use of EVAPRE™, an evaporation retarder from W. R. MEADOWS, is also recommended.



PRECAUTIONS

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 50.8 mm (2") brass cube molds under total confinement and according to CRD-C 621 procedures. Less flowable consistencies will exhibit high strengths. Ambient temperatures during placing may vary from 4° C to over 30° C. At normal temperatures the working time or pot life is one full hour. 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.

MASTERFORMAT NUMBER AND TITLE

03 62 13 - Non-Metallic Non-Shrink Grouting

LEED INFORMATION

May help contribute to LEED credits:

- MRc9: Construction and Demolition Waste Management

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

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