

SET® GROUT

General construction, natural aggregate, nonshrink grout

DESCRIPTION:

SET® GROUT is a non-catalyzed, multi-purpose, construction grout containing mineral aggregate. This portland cement-based product is designed to meet all of the performance requirements of the Corps of Engineers Specification CRD-C 621-89 at a consistency from flowable to dry pack.

RECOMMENDED FOR:

- Normal loads for columns and baseplates
- Anchoring bolts, reinforcing bars and roadway dowels
- Bedding grout for precast panels
- Repairing of cavities resulting from ineffective concrete consolidation
- Caulking concrete pipe
- Backfilling, underpinning foundations and pressure grouting of slabs needing alignment
- General construction applications

FEATURES/BENEFITS:

- Free of inorganic accelerators, including chlorides or other salts, detrimental to reinforcing steel
- Color similar to concrete after curing
- Can be extended with clean, well-graded coarse aggregate to fill large voids without additional mix water
- Hardens free of bleeding when placed at a stiff, plastic or flowable consistency and when ambient temperatures are 50 °F (10 °C) and above

PACKAGING/ESTIMATING:

SET GROUT is packaged in 50 lb (22.7 kg) moisture-resistant bags.

One 50 lb (22.7 kg) bag of SET GROUT mixed with 1.0 gal (3.8 L) of water provides approximately 0.42 ft³ (0.012 m³) of mixed grout (flowable mix).

PERFORMANCE DATA:

Flowable Mix

Approximate Water: 1.0 gal (3.8 L)
Flow: 5 drops (ASTM C230) 126% to 145%

At a constant percent of water, consistency will vary with temperature. Final set takes place in approximately 7.5 hours at a flowable consistency, 70 °F (21 °C).

Compressive Strength

	Consistency					
	Flowable ¹		Plastic ²		Stiff ³	
	psi	MPa	psi	MPa	psi	MPa
3 day	3,000	21	5,000	35	6,000	41
7 day	5,000	35	6,500	45	8,800	61
28 day	7,000	48	9,000	62	10,000	69

¹ 140% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

² 100% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

³ 40% flow on flow table, ASTM C 230, 5 drops in 3 seconds.

APPLICATION:

Consult the SET GROUT product bag for details on the installation of SET GROUT.

Master Builders recommends that the user request the services of the local representative for a pre-job conference to plan the installation.

CURING:

Cure all exposed grout shoulders by wet curing for 24 hours and by applying a Master Builders recommended curing compound, such as MASTERKURE®.

LIMITATIONS:

- When grouting in temperatures below 50 °F (10 °C) or above 100 °F (38 °C) special procedures are required.
- Do not use SET GROUT where it will come in contact with steel designed for stresses above 80,000 psi (552 MPa). Use MASTERFLOW® 816 Cable Grout.
- Do not add plasticizers, accelerators or retarders.
- For best results, do not attempt to place SET GROUT under a baseplate with less than 1 in. (25 mm) of vertical clearance.
- Do not place SET GROUT in any environment which will have a sustained temperature of 400 °F (204 °C) or higher.
- Do not place SET GROUT in any lifts greater than 6 in. (152 mm) unless the product is extended with aggregate.
- Where precision alignment and severe service such as heavy loading, rolling and/or impact resistance are required, use metallic-reinforced, non-catalyzed EMBECO® 885 grout. If the amount of impact resistance needed is not great enough to require metallic-reinforcement, use natural-aggregate, MASTERFLOW® 928 grout.

RELATED BULLETINS:

Material Safety Data Sheet — SET GROUT
Specification Bulletin 9S31 — SET GROUT

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