



DATA SHEET NO. 3600-201

CG-86™

Construction-Grade Grout

DESCRIPTION

CG-86 construction-grade grout is a non-ferrous, non-gaseous, non-shrink economical grout. It was specifically developed as a high-strength, cost-effective, general-purpose grout for use across a broad range of large and small construction projects. CG-86 is non-gaseous, will not rust and contains no added chlorides. It is furnished pre-mixed and ready to use. CG-86 may be extended for deep grouting with pea gravel for greater yield and increased economy.

USES

CG-86 is very versatile and may be used for either interior or exterior applications. CG-86 is designed for base plate grouting, anchoring, pre-cast wall panels and bridge seats.

SPECIFICATIONS/STANDARDS

- ASTM C1107-13

PACKAGING

22.7 kg (50 lb.) poly-lined bags

YIELD

0.12 m³ (0.43 ft.³) per 22.7 kg (50 lb.) bag

FEATURES/BENEFITS

- Furnished premixed and ready-to-use ... just add water.
- Provides a high-strength, non-ferrous, non-shrink grout for a broad range of general construction projects.
- Offers the strength and characteristics required for cost-effective, general-purpose grouting.
- Cost reductions are realized when extended with pea gravel for deep grouting.
- Requires no separate bonding agent.
- No site batching required for consistent results.
- Chloride-free.

TECHNICAL DATA

Consistency (Per ASTM C827-95A)	Plastic	Flowable
Mix Ratio [per 22.7 kg (50 lb.)]	3.0 litres (6.34 U.S. pints)	3.5 litres (7.40 U.S. pints)
Flow (per ASTM C230-90)	110%	130%
Set Time (per ASTM C191-92, Initial)	4 - 6 hours	5 - 7 hours
Compressive Strength (per ASTM C109-93)		
@ 1 day	38.9 MPa (5,200 psi)	26.9 MPa (3,900 psi)
@ 3 days	49.6 MPa (7,200 psi)	40.0 MPa (5,800 psi)
@ 7 days	60.7 MPa (8,800 psi)	49.0 MPa (7,100 psi)
@ 28 days	66.2 MPa (9,600 psi)	61.4 MPa (8,900 psi)

**All technical data is typical information, but may vary due to testing methods, conditions, and procedures.*

APPLICATION

All grouting should be done using established procedures according to American Concrete Institute (ACI) recommendations.

Surface Preparation ... All grout contact surfaces must be clean and free of oil, grease, scale, etc. Unsound concrete must be chipped out. Leave surface rough but level. Grouting area must be saturated with water 12 - 24 hours prior to grouting. Remove all excess water before placing grout.

Pouring ... Method of forming must provide for rapid, continuous grout placement. Ensure form is well sealed.

Continued over ...

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Placement ... CG-86 is easily placed by pouring or pumping and compaction can be accomplished by rodding or light vibrating. Place grout on one side, flowing to opposite and adjacent sides, to avoid entrapment of air. When necessary, provide vent holes. Grout "head" and excess grout may be removed after initial set.

Curing ... Cure CG-86 immediately following application using a suitable curing compound from W. R. MEADOWS, or in accordance with ACI 308. W. R. MEADOWS recommends 1100, 1220-WHITE, or one of the CS-309™ series or VOCOMP®-25 curing and sealing compounds from W. R. MEADOWS. When conditions exist for rapid early water loss, the use of EVAPRE™, an evaporation retarder from W. R. MEADOWS, is also recommended.

Venting ... Forming also must ensure adequate venting to avoid air entrapment. Do not make close fitting forms, allow 12.7 mm (1/2") clearance and 25.4 mm (1") for "head."

Mixing ... Small quantities of CG-86 construction grout may be hand mixed in a concrete mixing pan until lump-free. For large quantities and continuous pours, use a mortar mixer with rubber-tipped blades. Mix for a minimum of three minutes or until uniform and lump-free. Use minimum water required to produce desired placement consistency. Do not mix more than can be placed in 30 minutes. Do not re-temper. Use only clean, potable water.

Set time and strength development is dependent on temperature; therefore, follow ACI methods during hot or cold weather grouting.

ACI 305 – "Standard on hot weather concreting"
ACI 306 – "Standard on cold weather concreting"

Cost reductions are realized when grouting large areas by adding washed, dried and graded pea gravel. For thicknesses of 50.8 - 101.6 mm (2" - 4"), add up to 25% 9.5 mm (3/8") pea gravel. For medium-flow mixes, 101.6 mm (4") and over, add up to 50% 9.5 mm (3/8") pea gravel, plastic mix. Addition of pea gravel is based on percentage of the weight of the dry grout.

PRECAUTIONS

Do not use as a repair mortar. (Please contact W. R. MEADOWS for specific repair mortar recommendations.) Normal cement storage handling practices should be observed. Grouting should be done using established concreting procedures according to ACI recommendations. Read and follow application information, precautions and Safety Data Sheet information.

MASTERFORMAT NUMBER AND TITLE

03 62 13 - Non-Metallic Non-Shrink Grouting

For most recent data sheet, further sustainability information, and SDS, visit www.wrmeadows.com.

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