

# MASTERFLOW® 816 CABLE GROUT

## DESCRIPTION:

MASTERFLOW® 816 cable grout is specially formulated to produce a fluid, extended working time, pumpable, nonshrink, nonbleeding, high strength product for grouting. It provides corrosion protection for highly stressed steel cables, anchorages and rods, plus a wide range of other applications.

## RECOMMENDED FOR:

- Pumping into areas around pretensioned or post-tensioned cables and rods to encapsulate the steel and protect it against corrosion, and to provide maximum anchorage
- Placing around end sections of unanchored cables and rods to provide anchorage for subsequent tensioning
- Nonshrink grouting in restricted spaces between precast wall panels, beams and columns where grout will be in contact with highly stressed steel
- Grouting cable anchor plates or other types of plates where grout will be in contact with highly stressed anchorages
- Repair to concrete and filling of small voids
- Conventional grouting applications where clearances are over 1/4" (6.4 mm) but under 1" (25 mm)

## FEATURES/BENEFITS:

- A formulation of specially-selected, hydraulic, cementitious, shrinkage-compensating materials that enhance flow and protect stressed tendons, bolts or bars from the threat of corrosion.
- An easy to pump or pour grout that hardens without bleeding or settlement shrinkage and formation of voids.
- A grout free of fine aggregate that provides maximum penetration into small spaces and between wires.
- A grout that can be pumped and/or recirculated for relatively long periods of time.
- A grout that hardens without shrinkage within the sheath or hole ensuring maximum bond and protection against ingress of water while in service.
- A grout which meets the compressive strength and nonshrink requirements of CRD-C 621 and ASTM C-1107 at a fluid consistency.

**Note:** Time of final set may exceed the 8-hour maximum specified in CRD-C 621 or ASTM C 1090 when placed at low temperature.

## PACKAGING/ESTIMATING:

MASTERFLOW 816 cable grout is packaged in 55 lb (25 kg) moisture-resistant bags.

One 55 lb (25 kg) bag of MASTERFLOW 816 cable grout mixed at 72 °F (22 °C) with 18 lbs or 2.17 U.S. gallons (8.17 kg or liters) of water produces approximately 0.60 ft³ (0.017 m³) of fluid grout at a 20 to 30 second flow (Corps of Engineers Flow Cone Method, CRD-C-611 or ASTM C-939).

## PERFORMANCE DATA:

### Typical Compressive Strengths

[2" (50 mm) cubes cured at 72 °F (22 °C), 25 second flow, high fluidity per CRD-C 621 or ASTM C 1090]

Age (days)	psi	MPa
1	3,300	22
3	6,000	41
7	7,000	48
28	8,500	58

**Note:** The data shown are based on controlled laboratory tests. Compressive strength cubes were cured in sealed molds until tested. Reasonable variations from the results shown above can be expected. Field and laboratory tests should be controlled on the basis of the desired placing consistency rather than strictly on water content.

## APPLICATION:

Consult the MASTERFLOW 816 product bag for details on the installation of the MASTERFLOW 816 cable 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:

- The walls of the space being grouted should be between 40 °F and 100 °F (4 °C and 38 °C) and should be saturated for optimum results. **Do not** use mixing water in an amount or at a temperature that will produce a flow of less than 20 seconds (CRD-C-611 or ASTM C-939) or cause **the mixed grout to bleed or segregate**. For use at temperatures outside the above range, consult your local Master Builders representative.
- Master Builders is not responsible for stress corrosion caused by ingredients in the flushout, saturation or mixing water or for contaminants either in the space being grouted or from other materials used in the system.
- This product contains portland cement. Portland cement, in combination with water, may cause skin irritation, rash and alkali burns. Do not wear contact lenses when working with this product. Remove soiled clothing and wash before reuse.

## RELATED BULLETINS:

Material Safety Data Sheet - MASTERFLOW 816 Cable  
Grout

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