

MS CABLE GROUT

Neat, high performance, shrinkage compensated, anchoring grout. MS Cable Grout is an unsanded, Portland cement based, expanding, shrinkage compensated, anchoring grout containing silica fume and other carefully selected components. MS Cable Grout resists water washout, making it ideal for anchoring cables, tendons or bolts in rock or soil media.

FEATURES & BENEFITS

- Superior early strength gain, allowing early tensioning of anchors.
- Excellent cohesive properties.
- Resistant to water washout and dilution by water in wet ground conditions.
- Excellent pumpability.
- Thixotropic properties reduce material loss in fractured ground.
- Reduced bleeding.
- Improved resistance to sulphate attack.
- Very low permeability.
- All KING products are manufactured using ISO 9001:2008 Certified Processes.

USES

- For most grouted anchor requirements including, cable bolting, earth tie-backs for excavation or soil stabilization, grouting anchors in tunnel support systems, re-bar grouting and grouting soil or rock tendons for anchoring piles or foundation structures.
- Infill of pipe piles.
- Structural grout medium for injection-bored micropiles.
- Grout for conventionally-bored micropiles.
- For post-grouting of micropile installations.
- For construction of grout columns around shafts of standard Helical Pier Foundation System Piles.

PROCEDURES

Mixing:

Mix MS Cable Grout to the consistency required for placement.

For a 20 kg (44 lb.) bag, the recommended volume of water is 5.0 – 6.7 L (1.3 – 1.77 US gallons). For a 20 kg (44 lb.) bag, a lower water:material ratio (5.0 L, 1.3 US gallons) should be used for pumpable consistencies while a higher water:material ratio (6.7 L, 1.77 US gallons) should be used for flowable consistencies.

For a 30 kg (66 lb.) bag, the recommended volume of water is 7.5 – 10.0 L (2.0 – 2.64 US gallons). For a 30 kg (66 lb.) bag, a lower water:material ratio (7.5 litres, 2.0 US gallons) should be used for pumpable consistencies while a higher water:material ratio (10.0 litres, 2.64 US gallons) should be used for flowable consistencies.

MS Cable Grout's thixotropic properties make the grout appear thick and cohesive when it is in fact very pumpable. Introduce potable water into a high shear mixer and then add MS Cable Grout while operating at medium speed. Increase mixer speed and continue mixing at high speed for 3 to 5 minutes. Mortar style mixers are not recommended for this purpose. Decrease mixer speed to low and continue mixing while placing the grout. The time between mixing and pumping of the batch should not exceed 15 minutes.

TECHNICAL DATA

The following data is representative of typical values achievable under laboratory conditions. Results in the field may vary.

MASS DENSITY

ASTM C 109 1875 kg/m³ (117 lb./ft³)

COMPRESSIVE STRENGTH

ASTM C 109

GROUT TEMPERATURE OF 21°C (70°F)

CURING TEMPERATURE

5°C (40°F)

21°C (70°F)

1 Day	4.5 MPa (650 psi)	28 MPa (4060 psi)
3 Day	30 MPa (4350 psi)	40 MPa (5800 psi)
7 Day	40 MPa (5800 psi)	45 MPa (6525 psi)
28 Day	55 MPa (8000 psi)	60 MPa (8700 psi)

FLOW

ASTM C 939 20-30 seconds

EXPANSION

ASTM C 940 3-6%
(Volume unconfined)

BLEEDING

ASTM C 940 Nil

SEGREGATION

Nil

OPTIMUM PERFORMANCE

- Not recommended for areas subjected to extremely high vibrations. Adhere to recommended water additions. Exceeding the recommended water:material ratio will result in reduced compressive strengths and inferior physical properties.

YIELD

- 20 kg (44 lb.) bag contains approximately 0.014 m³ (0.5 ft³).
- 30 kg (66 lb.) bag contains approximately 0.020 m³ (0.7 ft³).

PACKAGING

MS Cable Grout is packaged in 20 kg (44 lb.) and 30 kg (66 lb.) triple lined bags and polywrapped on wooden pallets.

STORAGE AND SHELF LIFE

Material should be stored in a dry covered area protected from the elements. Unopened bags have a shelf life of 12 months.

SAFETY PROCEDURES

MS Cable Grout contains Portland cement. Normal safety-wear such as rubber gloves, dust mask and safety glasses used to handle conventional cement based products should be worn. Material Safety Data Sheets are available upon request.

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Warranty: This product is designed to meet the performance specifications outlined in this product data sheet. If the product is used in conditions for which it was not intended, or applied in a manner contrary to the written recommendations contained in the product data sheet, the product may not reach such performance specifications. The foregoing is in lieu of any other warranties, representations or conditions, expressed or implied, including, but not limited to, implied warranties or conditions of merchantable quality or fitness for particular purposes, and those arising by statute or otherwise in law or from a course of dealing or usage of trade. [REV.0002_11/24/2014]

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