

MULTIGROUT 801 GP

General Purpose Natural Aggregate Flowable Non-shrink Grout

Specification Type

Meets requirements of CRO-C 226-80 and ASTM C 109-80 specifications.

Description

MULTIGROUT 801 GP a premixed ready-to-use dry grout with specially graded siliceous aggregates shrinkage compensation chemicals and blended with Portland Cements to produce a flowable non-shrink grout. It is grey coloured, is non-oxidizing and has no added chlorides or nitrates.

Typical Applications

In all applications where a non-shrink flowable natural aggregate cementitious grout is required or specified; particularly where a pre-mixed durable and permanent grout with high early strength are the criteria.

Advantages

- * MULTIGROUT 801 GP a flowable grout that provides precision support under load bearing elements such as machine base plates, crane and transporter rails, stanchions and column bases, anchor bolts, precast units, bridge bearings and for repairing of honeycomb in concrete etc.
- * MULTIGROUT 801 GP a precision grout for use when flowable consistency is required and when the principal requirement is a shrink free grout.
- * High Early Strength - complies to ASTM C 109-80 specification. Obtains a minimum compressive strength to facilitate rapid installation and early operation of machinery /structures.
- * Non-Shrink - meets CRD-C 621 Specification. A non-shrink grout that hardens, free of bleeding, settlement or drying shrinkage. Maintaining tight contact with the underside of grouted elements.
- * Flowable Consistency - meets CRD-C 226-80 Specification. A grout when mixed and placed at flowable consistency remains free from segregation and bleeding (by flow table test method). Iron Free - a non-metallic aggregate grout for use where an appearance similar to concrete or mortar is required.
- * Durability - a dense and ultimate high strength grout which contains no gas generation or air release agents such as aluminum powder, fluid coke, etc. It is durable and withstands repetitive loading requirements.
- * Reliability - MULTIGROUT 801 GP is premixed thus eliminating costly on site blending errors.

Typical Properties Stiffening Test

Initial set:	Approximately 2 hours at 20°C
Final Set:	Approximately 4 hours at 20°C
Flow Characteristics:	Flowable - meets CRD-C 226-80 Specification
Shrinkage:	Non-shrink meets CRD-C 621 Specification

Flashpoint:	Not applicable
Operating Temperature:	Between 5°C to 200°C. Permissible for use with equipment exposed to the above temperature parameters
Storage Life:	Up to 1 year when stored under cover and in dry conditions

Yield

One 25kg bag of MULTIGROUT 801 GP when mixed with 4.0 to 4.2 litres of water will yield \pm 13 litres of flowable grout. Note: Optimum water demands can be verified on site as environmental and placing conditions influence grout / water requirements.

Strength Development

The strength of MULTIGROUT 801 GP is dependent on the water demand, curing and age of hardened grout. To determine the earliest the equipment or machinery can be put into operation, the above must be considered. Protect from freezing until fully cured for 28 days.

Typical Strengths of MULTIGROUT 801 GP:

Strength in MPa at flowable consistency and tested at 20°C

Age	Compressive	Flexural	Tensile
1 Day	15,0 MPa	1,2 MPa	1,0 MPa
3 Days	25,0 MPa	2,4 MPa	2,0 MPa
7 Days	40,0 MPa	3,8 MPa	3,9 MPa
28 Days	55,0 MPa	5,4 MPa	5,1 MPa

The data is based on controlled laboratory tests as per our quality assurance procedures. Variations can be expected under prevailing site conditions.

Directions for Use

All equipment to be grouted must be free of grease, oil and dirt and the concrete surface must be scabbled, cleaned and be well saturated for 24 hours prior to grouting. Do not mix more grout than can be used in + 30 minutes. Once the grout has stiffened, do not re-temper by adding water.

Hot and Cold Temperature

Temperatures of both the grout and all elements coming into contact with the grout should be in the range of 10°C to 26°C. Do not grout in freezing conditions. If outside this range special information on high and low temperature grouting recommendations are available from your local MCC LIMPOPO's Field Representative.

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Curing

Cure all exposed areas of grout with MULTICURE 300 C or MULTICURE 200 curing compounds or keep saturated for at least 10 days.

Watchpoints

- * Site and laboratory tests should be determined on desired placing consistency rather than strictly on the water content. This must be established prior to placing the grout.
- * Always place grout from one side only. Do not pour grout from both sides as this will result in entrapment of air creating a gap (air pocket) between the underside of bedplate and grout.
- * Do not use contaminated water or water in an amount or at a temperature that will produce bleeding, segregation delayed hardening and low strengths.

Packaging

Supplied in 25kg double lined moisture resistant bags

Specification Clause

All grouting shall be carried out where indicated using MULTIGROUT 801 GP non-shrink flowable and high ultimate strength grout as manufactured by MCC LIMPOPO's to the following specification:

- * To comply with CRD-C 226-80 and ASTM C 109-80 specifications
- * Cure all exposed grout with MULTICURE 300 C / 200 C curing compound
- * The grout shall be mixed and used strictly in accordance with the manufacturer's recommendations

Quality Assurance

MCC LIMPOPO's production and testing programmes comply with local and international testing standards. These stringent testing requirements also comply with CRD-C 226-80 and ASTM C 109-80 specifications.

Updates

This data sheet supersedes all previous issues prior to this date: 01/11/98.