

Multi Pre-Packed Concrete

Natural aggregate, high strength, non Shrink flowable concrete. Packed in 40kg and 25kg bags

Description

Multi Pre-Packed Concrete a premixed ready to use dry concrete blend. The product consists of a graded silicious sand and aggregate (13mm) blended with Portland cement containing shrinkage compensating chemicals. It is Grey coloured, non-oxidising and has no added chloride or nitrates.

Typical Applications

- * In all application where thicknesses is greater than 15-20mm
- * Can be applied as low slump and high slump concrete dependent on required specification
- * Used in bulk concrete applications when thickness is greater than 100mm. This will reduce the heat of hydration in high volume concrete pours

Advantages

Multi Pre-Packed Concrete provides precision support under load bearing elements such as machine base plates, column bases, anchor bolts and pre-cast units

Typical Properties

Initial Set:	Approximately 2 hours @20°C
Final Set:	Approximately 4 hours @20°C
Shrinkage:	Non-Shrink
Flash Point:	Nil
Operating Temperatures:	10°C - 35°C
Water Demand:	4.0L / 40kg or 2.5L / 25kg
Cement / Water Ratio:	1.5
Storage Life:	Up to 1 year when stored under cover and in dry conditions

Strength Development

- * The strength of Multi Pre-Packed Concrete is dependent on water demand, temperature, curing and age of the hardened concrete
- * Protect the concrete by applying a curing compound after final set
- * Also the concrete must be protected from freezing temperatures until fully cured

Typical Strengths

Multi Pre-Packed Concrete strength in Mpa at low slump consistent

Age (Days)	Compressive Strength (Mpa)
7 Days	18 - 22
28 Days	33 - 38

This data is based on controlled laboratory tests as per MCC LIMPOPO's quality assurance procedures. Variations can be expected under prevailing site conditions.

Directions for Use

- * Concrete area must be well saturated with water prior to casting of pre-mixed concrete
- * Do not mix more concrete than can be used in 30 minutes
- * Once concrete has stiffened, do not re-temper by adding water

Hot and Cold Temperatures

- * Temperature of both the concrete and all elements coming into contact with the concrete should be in the range of 10-30°C
- * Do not concrete in freezing conditions
- * If outside this range, special information on high and low temperature concreting recommendations are available from MCC LIMPOPO

Curing

- * All exposed areas of concrete must be treated with Multicure 200 Curing Compound or kept saturated for at least 5 days

Watch Points

- * Site tests should be determined on desired placing consistency rather than strictly on water content. Increased water requirement will affect the final strengths of the concrete
- * Always concrete from one side only. Do not pour concrete from both sides of a stationary element. Air entrapment could result.
- * Do not use contaminated water or water in an amount or at a temperature that will produce bleeding, segregation, delayed hardening and in turn low strengths

Yield

- * Once 40kg bag of Multi Pre-packed Concrete when mixed with 4.0 litres of water will yield ±18.5 litres of placeable concrete
- * One 25kg bag of Multi Pre-packed Concrete will yield ±12 litres

Packaging

Supplied as a two pack system polypropylene outer bag housing the sand and stone and an internal polyethylene bag housing the cement.

Specification Clause

All concreting shall be carried out where indicated using Multi Pre-Packed Concrete as manufactured by MCC LIMPOPO to the following specifications

- * Cure all exposed concrete surfaces with Multi Cure 200 Curing Compound
- * Concrete shall be mixed and used strictly in accordance with and used strictly in accordance with the manufacturers recommendations



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* Water content to be adhered to, in order to prevent bleeding and segregation

Quality Assurance

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

Updates

This data sheet supersedes all previous issues