MCC LIMPOPO

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# Multi Pre-Packed High Strength Screed

## Natural aggregate high strength, non-shrink flowable concrete screed. Packed in 25 kilogram bags

**Description**
Multi Pre-Packed High Strength Screed is a Multi-Component product specially designed to be used as a floor repair product and for monolithic floor overlays. The product consists of a graded silicious sand and aggregate (6-9mm) blended with Portland cement and proprietary chemicals to achieve controlled setting and workability characteristics producing a non-shrink pre-mixed screed / topping.

**Typical Applications**
* Repairs to large floor overlays
* Repairs in parking garages, ramps and roads
* Repairs to heavy wear areas such as abattoirs, laboratories, factory floors
* In all applications where thicknesses is greater than 15-20mm high strength
* Can be applied as low slump or high slump screeding material

**Advantages**
* Economical
* Easy to use
* High early strengths
* Increased abrasion resistance
* Concrete appearance
* Early traffic - 48 hours
* Bonds exceptionally well to existing concrete
* Durable
* Reduces maintenance costs

**Typical Properties**

| | |
|---|---|
| Initial Set: | Approximately 1½ hours |
| Final Set; | Approximately24 hours |
| Shrikage: | Non-Shrink |
| Operating Temperatures: | 10°C - 35°C |
| Water Demand: | 3.5 / 4.0L per bag |
| Cement / Water Ratio: | ±2.5 |
| Storage Life: | Up to 1 year when stored under cover and in dry conditions |

**Strength Development**
The strength of Multi High Strength Screed is dependent on the water demand, temperature, curing and age of the hardened screed high strength

Also screed must be protected by applying a curing compound to the surface after final set.

**Typical Strengths**
The strengths of the Multi Pre-Packed High Strength Screed is as follows:

| AGE | COMPRESSIVE STRENGTHS (Mpa) |
|---|---|
| 3 Days | 32 - 35 |
| 7 Days | |
| 28 Days | |

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

**Directions for Use**
There are two recommended ways of laying Multi High Strength Screed:

**1. Monolithic Construction**
The screed material must be mixed with the required water and applied not less than 30mm onto the newly laid base concrete (13 Hours). This for of construction should be used wherever possible as it produces an integral floor finish, reduces construction time and therefore costs are kept to a minimum.

**2. Repairs or Toppings**
This method is used when the base concrete has hardened for a minimum period of 28 days prior to applying the screed. It is necessary to prepare the base concrete befor application of the screed.

**2.1 Preparation**
* The area to be repaired must first be scabilled and then cleaned to remove all oil, grease, laitance and dust
* The cleaned surface is then pre-saturated for a period of 12-18 hours prior to the product being applied
* Ensure that all free water has been removed

**For both methods of application**

**A) Mixing**
**B) Installation**

**A) Mixing**
Mixing should at all times be carried out by mechanical means.
* Add the required litres of water (3.5 - 4.0L) per bag to produce a plastic mix ±50mm slump.
* The mixed material must be placed within 1 hour.
* Any material remaining after this time should be discarded.

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**B) Installation**

* The Pre-mixed Multi High Strength Screed material must be spread evenly onto the base concrete, consolidated and leveled.
* Particular care should be taken to obtain full compaction of the bay edges and corners.
* A smooth hard surface is obtained by either hand trowelling or by the use of a power float, followed by a final hand trowelling to remove any disk marks.
* The newly laid surface must be cured with Multi Cure 200 Curing Compound immediately after the final trowelling operation has been completed.
* Protect all surfaces from traffic until the surface has completely hardened or gained full strength, this will depend on the type of use.

**Rate of Application**

A 25kg bag of Multi High Strength screed when mixed with 3.5 - 4.5L of water will yield 14 litres of finished product.

**Packaging**

Supplied in 25kg moisture - resistant bags

**Watch Points**

* Do not apply over concrete containing calcium chloride or where concrete contains more than 3% entrained air.
* Do not cure with salt water or brackish water
* Never apply over bleed water. Be aware of concrete susceptible to delayed bleeding.
* Always cure as soon as possible with Multicure 200

**Quality Assurance**

MCC LIMPOPO's production and testing programmes comply with local testing standards

**Updates**

This data sheet supersedes all previous issues prior to this date 24/08/2021