

MULTI DURASCREED 50

A Natural Aggregate Screed Designed for Floor Repairs and Overlays

Description

MULTI DURASCREED 50 is a processed inert quartz aggregate combined with blended cements and proprietary chemicals to achieve controlled setting and workability characteristics producing a non-shrink pre-mixed screed topping.

MULTI DURASCREED 50 is a multi-component product specially designed to be used as a floor repair product and for monolithic floor overlays.

Typical Applications

- * Repairs to large floor overlays
- * Parking garages, ramps and roads
- * Bridge deck repairs (where concrete spalling is in excess of 25mm)
- * Heavy wear areas such as abattoirs, laboratories, car parks, power stations, breweries, agricultural buildings, etc.

Advantages

- * Economical
- * Easy to use
- * High early strengths
- * Increased abrasion resistance
- * Concrete appearance
- * Early traffic - 72 hours
- * Bonds exceptionally well to existing concrete
- * High density surface, Minimises dusting and is $\pm 60\%$ more impermeable to oil and grease penetration than plain concrete
- * Durable
- * Reduces maintenance costs

Typical Properties

Colour:	Natural concrete colour (coloured screeds available on request)
MOH Scale:	7-8
Aggregate Impact Value:	22
Abrasion Value:	2.5 times greater than plain concrete screed
Storage life:	Up to 1 year when stored in accordance with manufacturer's instructions
Flashpoint:	Not applicable

Directions for Use

There are two recommended ways of laying MULTI DURASCREED 50:

1. Monolithic Construction: MULTI DURASCREED 50 mixed and applied not less than 12mm thick must be laid within 13 hours of the base concrete. This form 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 set and hardened for a minimum period

of 28 days prior to applying the screed. It is then necessary after preparation of the base concrete to apply a bonding layer before applying MULTI DURASCREED 50 at a minimum thickness of 25mm.

2.1 Preparation

The area to be repaired must be first scabbled 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.

2.2 Bonding Slurry

To ensure a sound bond between the base concrete and MULTI DURASCREED 50 topping, apply a cement / water / MULTIBOND 1070 slurry to the prepared concrete surface. Immediately thereafter proceed with the installation. Do not allow the bonding slurry to dry as it will then act as a bond breaker.

For Both Methods of Application

- a) Mixing
- b) Installation

Mixing

Mixing should at all times be carried out by mechanical means. Add 2.5 litres water per 25kg 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.

Installation

The pre-mixed MULTI DURASCREED 50 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 power float, followed by a final hand trowelling to remove any disc marks. The newly laid surface must be cured with MULTICURE 300 C Curing Compound. Immediately 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 DURASCREED 50 mixed with 2.5 litres of water yields 12 litres of finished product (i.e. $\pm 2 \times 25\text{kg}$ bags per m^2 at 25mm thickness).

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Specification Clause

Monolithic Construction:

MULTI DURASCREED 50 light impact and abrasion resistant non-oxidising quartz aggregate screed/topping, manufactured by MULTI CONSTRUCTION CHEMICALS (PTY) LTD to be laid monolithically to a minimal depth of 12mm. Cure with MULTICURE200

Repairs to Toppings:

Apply MULTI DURASCREED 50 to the prepared and saturated concrete base at a minimum thickness of 25mm. Consolidate, level and trowel to desired finish. Cure with MULTI CURE 200.

Quality Assurance

MCC LIMPOPO's production and testing programmes comply with local testing standards. These stringent testing requirements also comply with ACI Manual of Concrete Practice Part 1, ND B.S. CP240 in situ floor finish performance specifications for concrete surface beds and screeds.

Updates

This data sheet supersedes all previous issues prior to this date: 31/05/97.