

KWA – ZULU NATAL

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MULTI DURASCREED 50

Monolithic Screed Topping for Industrial Overlay

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 shrinkage controlled, 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 25 mm). Hard wearing 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 - 12 hours
- High density surface. Minimises dusting and is ± 60% more impermeable to oil and grease penetration than plain concrete
- Durable
- Reduces maintenance costs

Typical Properties

Appearance	Grey / Brown
Coverage	1.2m ² @ 10mm
Working Time	20-30 minutes
Initial Set Time	1 hour
Time to traffic	12-18 hours
Time to Grinding	48 hours
Application thickness	10mm to 100mm
Application Temp.	15°C to 25 °C
Compressive Strength	25 MPa (1 day) 55 MPa (28 days)
Yield	12Lts per 25Kg
Water Required	2.2Lts per 25Kg

Watch Points

- Do not re-constitute the mix after initial setting has occurred.
- Do not mix more than can be used within 20 minutes.
- Do not use more water than is prescribed as this will cause uncontrolled shrinkage and cracking
- Use surface curing agents while screed is under cure.

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CHEMICALS**

www.mcc-sa.co.za

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Directions for Use

For Monolithic construction: MULTI DURASCREED 50 mixed and applied not less than 10mm 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.

For Monolithic screeds: 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.

Surface 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 with water for a period not more than 12-18 hours prior to the product being applied. Ensure that all free water has been removed.

Priming:

Using a bonding slurry as a primer is not recommended. Rather the use of MULTI POXY 1305 wet-to-dry epoxy is a safe, sure method of creating a strong bond between the substrate and MULTI DURASCREED 50. This is the recommended method to best control the effects of shrinkage in the topping.

Application:

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.

The pre-mixed MULTI DURASCREED 50 material must be spread evenly onto the base concrete, consolidated and levelled. Care should be taken to obtain full compaction of the bay edges and comers. A smooth hard surface is obtained by either hand trowelling or using a power float, followed by a final hand trowelling to remove any disc marks. The newly laid surface must be cured with MULTICURE 200 (indoors) or MULTICURE 300 (outdoors) curing compound immediately after the final trowelling operation has been completed. Protect all surfaces from traffic until the surface has hardened after 12-18 hours.

Equipment Care

All tools should be cleaned with water immediately after use. If delayed, equipment will need mechanical action to clean or be discarded.

Packaging

Supplied in 25Kg bags.

Quality Assurance

Multi Construction Chemicals South Africa (PTY) Ltd production and testing programs comply with all local and international testing standards.

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