

KWA – ZULU NATAL

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**MULTI CONSTRUCTION  
CHEMICALS**

www.mcc-sa.co.za

## MULTI DURASHAKE 60 Concrete Floor Hardener

### Specification Type

ACI Manual of concrete Practice Part 1, ACI 201 and 2 R77 Guide to Durable Concrete, Section 3.4 and 6; recommendations for obtaining abrasion resistant concrete surfaces. BS cp 204 in situ Floor Finishes

### Description

MULTI DURASHAKE 60 a specially graded inert quartz aggregate combined with blended cements, water absorbing agents and other proprietary chemicals. The hard-wearing quartz aggregate has high abrasion resistant characteristics providing 2-3 times greater wear resistance than plain concrete floors. The floor is then nonoxidizing and chemically inert.

### Typical Applications

MULTI DURASHAKE 60 provides one of the hardest wearing non-dusting floor surfaces in the following typical locations / facilities:

Engineering Workshops, Abattoirs, Garages, Bakeries, Warehouses, Laboratories, Power Stations, Subways, Loading Bays, Car Parks, Breweries, Refineries, Desalination Plants, Factories, etc.

### Advantages

MULTI DURASHAKE 60 is designed to increase the durability and wearing properties of industrial and commercial concrete floors.

MULTI DURASHAKE 60 is applied by the dry shake method and is incorporated monolithically into the concrete surface. It produces an extremely hard-wearing durable floor surface with added resistance to abrasion, dusting and penetration of aggressive liquids.

Improves impact resistance.

Reduces maintenance costs.

MULTI DURASHAKE 60 can also be applied as a trowelled overlay system incorporating MULTIBOND SBR 1070.

### Typical Properties

Colour	Grey
MOH Scale	7-8
Aggregate Grade	18
Impact Value	22

Comparative Wear Results: Depth of Wear (mm)		
Sample (min)	Control	DSHAKE
5	0.38	0.13
10	0.67	0.26
15	0.79	0.34
20	0.98	0.39
25	1.18	0.50
30	1.34	0.61
35	1.58	0.73
Weight Loss (gm)		
5	2.9	1.4
10	5.8	2.7
15	7.6	3.7
20	9.9	4.8
25	11.9	5.7
30	14.6	6.4
35	16.7	7.8

Test results shown above indicate that MULTI DURASHAKE 60 significantly reduces the depth Of wear. Tests were undertaken using a dorry abrasion machine.

### Watch Points

Maximum concrete slump should be 75 mm. Do not apply over concrete containing more than 3% entrained air. DO not sure with salt water or brackish water. Never apply over bleed water. Be aware of concrete susceptible to delayed bleeding. Do not apply over concrete containing unrefined lignosulphonate admixtures. Always cure as soon as possible with MULTI CURE 200.

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## MULTI DURASHAKE 60

### Directions for Use

#### Base Concrete:

The base concrete should be designed to a minimum of 25 MPa - 30 MPa with  $\pm 65$  mm slumps. 25mm thickness. Consolidate, level and trowel to desired finish. Cure with MULTICURE200.

#### Method:

Dry shake method: if bleeding occurs, remove all bleed water from surface then hand or machine float.

#### Application:

MULTI DURASHAKE 60 should be applied when the base concrete is sufficiently firm to take the weight of both workman and power float, leaving foot prints no greater than 3mm in depth. It is essential that no free-standing water is evident. DO NOT DELAY application when this point has been reached.

Apply 2/3 of the first shake and carry out the first power or hand trowel operation, repeat the operation with the remaining 1/3 at right angles to the first. Ensure that the first stage is completely trowelled in before continuing with the second stage.

When the sheen begins to leave the surface, carry out power trowelling to close the pores and completely level the surface. Initially the power float blades should be set flat or at a slight angle and as the surface continues to stiffen the angle of the blades should be increased when trowelling, do not add water to the surface for finishing purposes

#### Curing:

All exposed areas of grout must be treated with MULTI CURE 200.

#### Coverage Using Dry Shake Method (kg/m<sup>2</sup>):

Light Duty: 3-4

Medium Duty: 5-7

Heavy Duty: 8-10

### Equipment Care

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

### Packing

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.

REVISION: 3.1