

MULTI ANTI-STATIC ARMOURFLOOR 126

Pre-Mixed Metallic Aggregate Armoured Floor Hardener. Provides a Spark Safe, Non Combustible and Improved Wear Resistant Floor Surface

Specification

Complies with the Code of Practice for anti-static resistance - SABS 051 Part I, Section 4.2.2

Description

MULTI ANTI-STATIC ARMOURFLOOR 126 a pre-blended specially processed and graded metallic aggregate, combined with tested hydraulic cements. Incorporated are absorbing agents, plasticizers, designed safety ingredients, conductive binders and other proprietary chemicals to provide an anti-static, spark safe and non-combustible iron armoured floor surface.

Typical Applications

MULTI ANTI-STATIC ARMOURFLOOR 126 is recommended in the following typical locations / facilities.

- * Ammunition factories and bunkers
- * Print and varnish spray workshops
- * Red label production facilities
- * Explosive production and storage areas
- * Industrial floors requiring conductive properties
- * Acetylene / hydrogen plants
- * Plastic processing plants
- * Refineries
- * Atomic Energy plants
- * Combustible Anesthetics plants
- * Granaries - flour mills
- * Coal storage areas
- * Wearing properties are 4 - 8 times greater than that of plain concrete floor surfaces
- * Where explosives, explosive dusts and gases are present or stored
- * Where dropped tools, instruments and other spark creating objects are a hazard
- * Where red label products are tested, manufactured, handled or stored
- * Where accumulation of dangerous electrostatic charges are to be prevented
- * Where moderate electrical conductivity between person and equipment making contact with the floor surface must be provided
- * Static-disseminating and ductile floor surface with a floor resistance of less than 200 000 Ohms at ambient temperature
- * Non-combustible - used for floors in potentially hazardous and red label areas
- * A complete and ready-to-use dry shake material that is easy to apply at the specified application rate
- * Malleable iron aggregate which increases impact resistance and reduces dusting, fracturing and pitting
- * 60% higher dense surface will reduce penetration of aggressive liquids viz. oil. Grease, fuels, skydrol mineral / vegetable and cutting oils, alkalis and many industrial chemicals

- * Easy to clean and as a result reduces maintenance and cleaning costs
- * Economical - return on investment
- * Hard wearing surface that can be applied as a smooth or non-slip durable surface.

Typical Properties

Colour:	Black
Composition Aggregate:	Non-oxidizing metallic and non static chemical composition
Abrasion Value:	4-8 times greater than plain high strength concrete
Compressive Strength:	60 MPa at 40 days, at 20mm slump and 24°C
Flexural Strength:	5.6 MPa at 28 days
Electrical Resistance:	Average 12 000 - 200 000 Ohms
Acid Attack:	Not recommended as acid attacks Cement and/or iron
Storage Life:	Up to 1 year when stored in accordance with manufacturer's instructions
Flashpoint:	Not applicable

Directions for Use

- * Base concrete should have a minimum 25 -35 MPa compressive strength and placed in accordance with good concrete practice. Particular care should be exercised at bay edges and corners to ensure good compaction. Begin floating operation as soon as 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.
- * The first dry-shake application at the rate of 2/3 of the specified amount. Allow moisture to penetrate through the dry shake surface hardener. Carry out the first power or hand trowel and then apply the remaining 1/3 of the specified material. Apply the second application at right angles to the first. Ensure that the first stage is completely trowelled into the concrete surface before continuing with the second stage.
- * When the sheen begins to leave the surface, carry out power trowelling to close the pores, pin marks 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. Do not over trowel. Cure with MULTI-STATIC CURE 331 at 9m² per litre.

MULTI ANTI-STATIC ARMOURFLOOR 126

Pre-Mixed Metallic Aggregate Armoured Floor Hardener. Provides a Spark Safe, Non Combustible and Improved Wear Resistant Floor Surface

* During installation of the floor all relevant detail shall be followed to ensure the required properties of the MULTI ANTI-STATIC ARMOURFLOOR 126 are achieved. Detailed instruction on application, grounding procedures, curing, testing requirements and drawings are available from the manufacturer.

Watchpoints

- * Maximum concrete slump should be 75mm
- * When trowelling, do not add water to the surface for finishing purposes
- * 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
- * Do not apply over concrete containing unrefined lignosulphonated admixtures
- * Always cure as soon as possible with MULTISTATIC 331 curing compound
- * Prior to hand over of facility polish floor surface with MULTISTATIC WAX 332
- * At all times during the entire construction program, avoid contamination of floor surface from spark creating materials
- * Do not burnish surface with the trowel
- * Protect floor surface with building paper only
- * Do not contaminate the earth probes with the concrete

Packaging

Supplied in 25kg moisture-resistant bags

Specification Clause

MULTI ANTI-STATIC ARMOURFLOOR 126 an abrasion resistant concrete floor hardener incorporating metallic aggregate, designed safety ingredients and conductive binders as manufactured by MCC LIMPOPO Applied to all floor areas indicated at a rate of..... kg/m² and in accordance with the manufacturer's detailed instructions Cured with MULTISTATIC 331 curing compound. Prior to hand over of facility, polish floor surface with MULTISTATIC WAX 332.

Quality Assurance

MCC LIMPOPO's production and testing programmes comply with local and international quality assurance standards.

Updates

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