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**MULTI CONSTRUCTION
CHEMICALS**

<http://www.mccc-sa.co.za>

MULTI ARMOURSCREED 120

**Malleable Iron and High Impact Resistant Floor Screed for
Heavy Duty Monolithic and Separate Construction**

Description

MULTI ARMOURSCREED 120 a pre-blended graded metallic aggregate blended with cement and proprietary chemical products specially designed to provide extra-heavy duty floor surface protection

Typical Applications

- * Loading and unloading areas / bays
- * Heavy duty tractor and crawler traffic areas
- * Critical areas where operating and production downtime is a problem
- * Areas where buckling of steel plate and rolling traffic is a problem
- * Industrial floors that will be subjected to high point loading

MULTI ARMOURSCREED 120 provides one of the hardest wearing non-dusting floor surfaces in the following typical locations /facilities:

Abattoirs	Loading Docks
Tank maintenance	Garages
Bays	Loading Bays
Flumes	Refineries
Caterpillar and Tank Workshops	Dairies
Towveyor	Strong Rooms
Sluiceways	Ramps

Advantages

- * Trafficable within 24 to 48 hours after installation
- * 10-15 times the serviceable life to that of plain concrete in similar working conditions
- * Greater wear, impact and abrasion resistance
- * Rejuvenation of old concrete floors
- * High density surface + 80% more resistant to penetration of solvents, oils and greases than that of plain concrete
- * Extremely high compressive and flexural strength
- * Reduces downtime and maintenance costs

Not Recommended

For areas where floor surfaces would be subjected to acids or other materials which seriously and rapidly attack cement / iron or for application onto fresh concrete that contains calcium chloride or salt water contaminated surfaces.

Typical Properties

Colour:	Dark grey/ black
Aggregate:	Non-oxidizing metallic composition Up to
Storage life:	1year when stored in accordance with manufacturer's instructions
Flashpoint:	Not applicable

Typical Strengths: MULTI ARMOURSCREED 120 AT 22°C

Time	Compressive Mpa	Flexural Mpa
24 hrs.	25	3
7 days	50	6
28 days	85	9

Rate of Application

For a 13 mm thick screed use two (2) 25kg bags of MULTI ARMOURSCREED 120 per one square meter. For a 25mm screed use four (4) bags per square meter, mix 2, 5 litres of water per 25kg bag.

Directions for Use

- * Monolithic Construction: MULTI ARMOURSCREED 120 must be cast at not less than 13mm thick and laid within + 3 hours of pouring the base concrete This method of construction should be used wherever possible The base concrete should have a minimum compressive strength of 25 MPa MULTI ARMOURSCREED 120 must be compacted to specified levels, wood floated and the final trowelling to required texture Cure with MULTICURE 300C Curing Compound. A detailed methodology is available on request.
- * Separate Construction: The base concrete must have set and hardened sufficiently (28 days) before the screed can be applied. The concrete must be scabbled to achieve a sound and clean surface. Saturate the prepared surface for + 6 hours and prior to casting MULTI ARMOURSCREED 120, remove free standing water. Apply a cement bonding slurry with hard b room. Then mix and apply MULTI ARMOURSCREED 120 to specification and consolidate to desired levels. Float and trowel to required surface texture Cure with MULTICURE 300C Curing Compound.

Note: When applying MULTI ARMOURSCREED 120 onto an existing concrete surface to a depth of 13mm do not pre-saturate the prepared concrete surface. Use MULTIPOXY 1305 Wet to Dry Epoxy Adhesive as the bonding agent and thereafter follow the standard mixing and placing instructions. A detailed methodology is available on request.

Watchpoints

- * In separate construction Hilti nails should always be fixed at + 600mm intervals, around the perimeter of the concrete floor to prevent possible curling of the applied screed.
- * Vibrator roller or compacting tools should be used to ensure the MULTI ARMOURSCREED 120 is fully compacted to achieve the required density and impact capabilities.
- * All joints in the existing concrete slab must be respected and additional joints should be cut in the screed system to create panels, each of + 3m2

Packaging

Supplied in 25kg moisture-resistant bags

Quality Assurance

MULTI CONSTRUCTION CHEMICALS (PTY) LTD's production and testing programmes comply with local and international testing standards

Updates:

This data sheet supersedes all previous issues prior to this date:
31/11/95