

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 $\pm 80\%$ 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 saltwater contaminated surfaces.

Typical Properties

Colour:	Dark grey/ black
Aggregate:	Non-oxidizing metallic composition
Storage life:	Up to 1 year 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 broom. 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.

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Watchpoints

- * In separate construction Hilti nails should always be fixed at $\pm 600\text{mm}$ 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 $\pm 3\text{m}^2$.

Packaging

Supplied in 25kg moisture-resistant bags.

Quality Assurance

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

Updates:

This data sheet supersedes all previous issues prior to this date: 30/11/95.