SOLIDSCREED 90

High Strength Industrial Floor Overlay Screed

Solidscreed 90 is a high strength industrial floor overlay screed for the resurfacing of old, worn, damaged concrete surfaces by providing a hard wearing surface with excellent impact resistance.

Solidscreed 90 is a ready to use blend of hard wearing aggregates, high strength cement and proprietary additives producing a non-shrink screed mix with excellent workability and controlled setting. Solidscreed 90 should be used for overlaying concrete floors, repairs to damaged floors and spalled joints.

BENEFITS:


Economical and easy to apply.


Workable consistency.


Extremely durable.
High early strength.


Impact and abrasion resistant.


Dense concrete appearance.


Early traffic - 72 hours.


High bond strength.


70% more impermeable to contaminants.

TECHNICAL DETAILS

Appearance	Concrete grey
Standard Colours	Various options
Mix Ratio	2.5 L water / bag
Yield	12 L
Coverage	1.0 - 1.25 m² / 25 kg bag
Application Thickness	12 mm - 100 mm
Working Time	60 minutes
Cure Time	48 hours light traffic
Compressive Strength	70 - 80 MPa, 28 days
Mohr Hardness	7 - 8
Abrasion Value	2.5 times concrete
Shelf-Life	12 months
Storage	Cool dry, indoors
PACKAGING	
Solidscreed 90 is supplied in 25 kg bags.	

APPLICATIONS:

- Warehousing
- Engineering workshops
- Parking garages, ramps and roads
- Abattoirs, breweries, laboratories
- Manufacturing plants, workshops
- Concrete overlays and resurfacing
- Grouting, repair mortar

SPECIFICATION

Solidscreed 90, a cementitious, impact and abrasion resistant, non-oxidising, natural aggregate screed / topping and repair compound applied at minimum 12 mm thick, compacted and steel floated, then cured with **Techfin Acrylic Cure**. To be installed by an approved applicator with documented quality assurance. Please contact your technical finishes representative for a list of approved installers.

DIRECTIONS

There are two possible ways of installing Solidscreed 90.

1. **Monolithic construction:** Solidscreed 90 is mixed and applied not less than 12 mm thick and no more than 13 hours after the base concrete. This forms an integrated floor finish, reduces construction time and is economical.

2. **Overlays and Repairs:** This method is employed onto existing cured (> 28 Day) concrete surfaces requiring resurfacing. It is then necessary to apply a bonding layer between the concrete and the Solidscreed 90.

PREPARATION

The floor to be resurfaced or repaired should be scabbled or scarified to remove all surface laitance. Ensure a clean, contaminant and oil free surface. Degrease with **Liquid Action** and rinse thoroughly with high pressure washing.

BONDING SLURRY – MONOLITHIC METHOD

Keep the surface saturated with clean water for 12 - 18 hours prior to the Solidscreed 90 application. Sweep off any free standing water before application. Prepare a bonding slurry by volume mixing **Techfin Hi-Density Bonding Liquid / water / cement in a 1:1:1 mix ratio**. Apply the bonding slurry to the prepared concrete surface with a block brush and immediately begin placing the Solidscreed 90 into the still wet slurry. Do not allow the slurry to dry.

WET TO DRY BONDING – OVERLAY METHOD

An alternative method for bonding new screed, patch repairs and joint repairs is to apply a wet-to-dry epoxy primer onto the prepared concrete surface. This method is used when the concrete is already fully cured. This is particularly useful in heavy duty and high traffic environments as well as for repairs to smaller areas and joints. Allow cleaned and prepared floor to dry.

PRIMING

Prime the floor with **SOLIDKOTE 110** wet-to-dry epoxy primer with a rubber squeegee and back roll with a mohair roller at 20 m^2 per 5 L kit or 250 um. Ensure the primer is carefully worked into the surface with the roller. Allow the primer to start to tack off for 30 - 60 minutes and then apply the Solidscreed 90 directly onto the wet primer. Do not allow the primer to dry or become tack free as the screed will not bond properly, or else re-prime the surface. Screed and finish off as described below and allow to cure for 24 hours before light foot traffic.

MIXING

Mix the Solidscreed 90 at the rate of 2.5 litres of water per 25 kg bag, preferably in a pan mixer or conventional concrete mixer. A very damp mix should result which will form a firm ball when held in a clenched fist (snowball test).

SCREEDING

The mixed Solidscreed 90 must be raked and spread evenly onto the prepared concrete, consolidated and levelled using screed bars. Attention must be to ensure good compaction of the bay edges and corners. A smooth hard surface is obtained by either hand trowelling or power floating followed by a final hand trowelling to remove any surface defects. The newly laid screed surface must be cured with **Techfin Acrylic Cure** or covered with plastic sheeting immediately after the final troweling process. Protect all surfaces from traffic until the surface has completely hardened.

HEALTH AND SAFETY:

Please read Safety Data Sheet and specific health and safety data for this product provided in compliance with the requirements of OHSA No.85 of 1993. The finished system is not hazardous to health or the environment.

WARRANTY

Technical Finishes products are manufactured under high quality standards and are warranted against defective materials and are sold subject to standard Terms and Conditions of Sale, copies of which can be obtained upon request. Technical Finishes deals with approved applicators and carry a back to back warranty with these clients. Technical Finishes cannot be held responsible for the workmanship in surface preparation and application of our products, it is understood that the approved contractor will guarantee such workmanship and application. It is vital that the application is done in accordance to our specification.