

TECHFIN INDUSTRIAL OVERLAY

CEMENTITIOUS SCREED DESIGNED FOR FLOOR OVERLAYS AND CONCRETE REPAIRS

DESCRIPTION

TECHFIN INDUSTRIAL OVERLAY is a powder mix consisting of processed inert quartz aggregate blended with cements and proprietary additives to achieve controlled setting and workability characteristics producing a non-shrink, pre-mixed screed / topping. TECHFIN INDUSTRIAL OVERLAY is a multi-component product specially designed to be used for monolithic concrete overlays and for floor repairs.

ADVANTAGES

- Durable
- Economical
- Easy to use
- High early strengths
- Increased abrasion resistance
- Concrete appearance
- Early traffic - 72 hours
- Bonds exceptionally well to existing concrete
- 60% less permeable to oil and grease penetration than plain concrete
- Reduces maintenance costs

APPLICATIONS

- Floor overlays
- Parking garages, ramps and roads
- Bridge deck repairs (where concrete spalling is in excess of 25mm)
- Heavy wear areas such as abattoirs, laboratories, car parks, power stations, breweries, agricultural buildings, etc.

TECHNICAL DETAILS

Colour : Concrete grey
Storage Life : Up to 1 year
Coverage : 1m² at 12mm thick
Mixing : 25Kg Product + 2.5Lt water
Compressive Strength: 80MPa @ 28 Days

DIRECTIONS

There are two recommended methods for laying TECHFIN INDUSTRIAL OVERLAY:

1. **MONOLITHIC CONSTRUCTION:** TECHFIN INDUSTRIAL OVERLAY mixed and applied not less than 12mm thick must be laid within 3 hours of the base concrete. This form of construction should be used wherever possible as it produces an integral floor finish, reduces construction time and therefore costs are kept to a minimum.

2. **OVERLAY TOPPINGS AND REPAIRS:** This method is used when the base concrete has set and hardened for a minimum period of 28 days prior to applying the screed. It is then necessary, after preparation of the base concrete, to apply a bonding layer before applying TECHFIN INDUSTRIAL OVERLAY at a minimum thickness of 25mm.

The area to be repaired must first be cleaned to remove all oil, grease, laitance and dust and then scabbled. The prepared surface is then pre-saturated with water for a period of 12 - 18 hours prior to the product being applied. Ensure that all free water has been removed. Apply SOLIDKOTE 110 wet-to-dry epoxy adhesive to the prepared concrete surface to ensure a sound bond between the base concrete and TECHFIN INDUSTRIAL OVERLAY topping.

Allow the SOLIDKOTE 110 to begin to gel approx. 1hour and thereafter proceed with the installation of the overlay. Mixing should at all times be carried out by mechanical means. Add 2.5 liters water per 25kg bag to produce a plastic mix of ±50mm slump. The mixed material

must be placed within **1 hour** and any material remaining after this time should be discarded.

The pre-mixed TECHFIN INDUSTRIAL OVERLAY material must be spread evenly onto the base concrete, consolidated and leveled. Particular care should be taken to obtain full compaction of the bay edges and corners. A smooth, hard surface is obtained by either hand troweling or by the use of a power float, followed by a final hand troweling to remove any disc marks. The newly laid surface must be cured with TECHFIN ACRYLIC CURE curing compound, immediately after the final troweling operation has been completed. Protect all surfaces from traffic until

the surface has completely hardened or gained full strength, depending on the type of use.

PACKAGING: 25Kg poly-woven bags

Storage

Store out of direct sunlight in a cool dry place, clear of the ground on pallets protected from rainfall. Avoid excessive compaction and protect from extreme temperatures. Shelf life is normally 9 months if stored correctly. Failure to comply with recommended storage conditions may result in premature deterioration of the product or packaging.

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