

ECOSCREED Rapid

RAPID DRYING ECO-FRIENDLY CEMENTITIOUS FLOWING THICK SECTION INTERNAL FLOOR SCREED

Description

Ecoscreed Rapid is a premixed, protein free, rapid drying internal pumpable screed. It has been specifically designed for thick section flooring applications where speed of return to service is of the essence. Ecoscreed Rapid incorporates over 65% by weight of recycled glass and is therefore more environmentally friendly than floor screed containing conventional dug or quarried aggregate or sand. The product can be delivered via the Ecoscreed Rapid bulk mixer pump truck or is available in 25 kg bags.

Ecoscreed Rapid has been designed to provide an answer to the problem of slow drying times associated with existing pumped alpha-hemihydrate / anhydrite calcium sulphate or sand and cement screeds.

Existing alpha -hemihydrate / anhydrite calcium sulphate or sand and cement screeds dry out at an approximate rate of 1mm per day up to 40mm and even more than that for greater thicknesses, which on many fastrack construction programs, creates inconvenient and costly delays.

Ecoscreed Rapid has the ability to utilise its' advanced formulation to rapidly hydrate and bind the mix water within the cementitious structure of the material. The material can be walked on after 4 hours at a thickness of 30mm and final floor finishes can be applied after 7 days at 20oC.

When delays in construction time are critical Ecoscreed Rapid provides the answer with its' rapid drying and laying capabilities. It can be laid thinner than conventional screeds and up to 1000m² per day at 30mm can be achieved, thereby making it highly competitive in overall time and cost savings terms compared with slow drying calcium sulphate screeds or ready-mix screeds.

Ecoscreed Rapid has a compressive strength of > 12 N/mm² at 1 day and > 20 N/mm² at 28 days. It can be installed as either a bonded, unbonded or floating system in both new build or refurbishment projects. The material is ideal for cavity systems and under floor heating installations.

Ecoscreed Rapid once laid and dappled, displays a smooth sealed surface texture, however it is recommended that prior to laying vinyl, linoleum or epoxy as the final floor finish that the surface should be lightly sanded to remove any slight imperfections in the surface.

Applications

Unbonded

- Minimum thickness of 30mm
- Fix 5 to 10mm border edging strip to all walls
- Use lapped single sheet polythene not less than 500 guage
- Use unfolded polythene on rolls (folds act as crack inducers)
- Tape all overlapped polythene edges except at border edge

Floating

- Polythene to be placed on top of insulation
- Insulation to be laid in accordance with the manufacturers recommendations

Under Floor Heating System

- Minimum screed thickness clearance over heating pipes to be 30mm
- Heating pipes should be secured from lifting

Thin Section Coverings

- If there is a requirement for direct fixing of thin section final finishes, such as vinyl, linoleum, etc. then the floor should be lightly sanded after 24 hours to remove any surface imperfections.

Need For Joints

- Underfloor Heating: Suitable joints to be made
- Unbonded: Joints are needed when the length to width ratio is > than 3:1.

Reinforcement - No requirement for reinforcement

Curing - Protect from draughts

Compressive Strength - > 12 N/mm² at 1 day 17 N/mm² at 7 Days 20 N/mm² at 28 Days

Flexural Strength - 2.5N/mm² at 1 day 3.4N/mm² at 3day 5N/mm² at 28 days.

Yield - 1.85 kg/mm/m²

Mixing Water - 4.0 litres per 25 kg bag / 16% of dry weight of powder.

Shelf Life - 12 months

Benefits

Available to site via Ecoscreed Rapid bulk mixer pump truck

The new Ecoscreed Rapid mixer truck facility allows for continuous mixing of the screed only when the truck has been located on site. (Conventional ready-mix calcium sulphate screeds create real problems on site caused by the screed starting to set due to it having been mixed at source and having to travel in the ready mix lorry to site)

For the Client & Architect

- Rapid 3 day drying time means a rapid return to service and rapid application of floor coverings
- Guaranteed minimum strength of 30 N/mm²
- Fully pumpable system saves time
- Reduced contract costs through time saved
- No curling or shrinkage cracking
- No reinforcement required
- Rapid 24 hour occupancy of buildings
- Ideal for under floor heating systems
- Contains > 65% recycled glass

For the Contractor

- Foot traffic in 4hrs service & rapid app of floor covering
- Delivered by pump truck
- Material mixed fresh on site
- No need for reinforcement
- No mechanical compaction needed
- Floor coverings applied after 3 days at 20°C at 30mm
- No hose or pump required on site
- Metered quantity, get what you pay for

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