



TEKFLOOR

TEKCEM FIBRE 550

Tekcem Fibre 550 is ideal for application over a wide range of substrates including concrete and sand / cement screeds. It can be applied at thicknesses from 5mm (featheredged with care) to 50mm in one application. Tekcem Fibre 550 is fast setting and can receive a tiled floor finish at 3 hours or most other types of finish at 24 hours (at 20°C).

Tekcem Fibre 550 is shrinkage compensated and contains fibre reinforcement and provides the perfect smoothing and levelling material for most floor finishes.

USES

Preparation of a surface prior to application of floor finishes on all common substrates including sand/cement screeds, concrete, sound asphalt, anhydrite screed, ceramic, quarry and natural stones, under floor heating, plywood and timber boards. High range of application thickness allows for use as a traditional smoothing compound but with the ability to also correct large discrepancies in substrate level.

SURFACE PREPARATION

Before starting, all substrates must be clean, dry and strong enough to support the weight of the leveller, adhesive and the final covering being applied. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion. Where traces of adhesive remain, these must be strong, sound and well adhered to the surface.

Sub-floors directly to earth must have a damp-proof membrane.

TOOLS REQUIRED

- Steel Trowel
- Spiked Roller
- Slow speed drill and mixing paddle (for relatively small hand mixed projects)
- Mixer / pump (for higher volume pumped applications)

MIXING AND APPLICATION

Slowly mix in 25Kg of powder to 4.5 litres of water. Do not add powder too fast as this may cause clumping which will then require additional mixing and will slow the overall process. Continue to mix until achieving a uniform consistency. If a slightly more fluid mix is required an additional amount of water can be added whilst still mixing up to a maximum of 5.0 Litres total. Never exceed 5.0 Litres per 25Kg as this will adversely effect the strength and surface finish of the material and will extend drying and overlaying times.

ADVANTAGES

- Can be applied from featheredge to 50mm in one pour
- Single part, no additives required, just add water
- Ideal for underfloor heating and plywood
- Light foot traffic after 3 hours
- Fibre reinforced and flexible
- Protein free
- Shrinkage compensated
- Pumpable
- High durability

When the desired consistency is obtained allow to stand for 2 mins before again remixing before application. Ensure that each mix is used within a maximum of 30 mins of first mixing.

Apply by pouring to the desired thickness and trowel finishing to a maximum of 50mm. If greater thickness is required allow to dry between layers of not more than 50mm.

Tekcem 550 will begin curing in 1 to 2 hours and should be "walkable" after approximately 3 hours at 20°C. These times may be decreased slightly by higher temperatures or increased if colder.

Tekcem 550 must be suitably dry before overlaying with floor finishes, typically this will be after 3 hours for tiles or 24 hours for most other floor finishes. It is the responsibility of the floor finishes applicator to ensure that the residual moisture in the material is suitable.

PROPERTIES

TEST	RESULT
Compressive Strength @ 24 hours	19.28 N/mm ²
Compressive Strength @ 7 days	27.12 N/mm ²
Compressive Strength @ 28 days	34.77 N/mm ²
Flexural Strength @ 24 hours	4.06 N/mm ²
Flexural Strength @ 7 days	5.94 N/mm ²
Flexural Strength @ 28 days	7.11 N/mm ²

SUBSTRATES

Concrete/screed: Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Sand/Cement screeds must have a moisture reading of less than 75% RH before work can commence. If it is a new screed, allow 1 day per mm for drying. Remove any laitance from the surface mechanically and remove all dust, ideally by vacuum.

It is necessary to prime sand/cement screeds to maintain the flow life and prevent air bubbles rising to the surface. Prime with Tekprime diluted 3 parts water to 1 part Tekprime. Very porous substrates will require more than one coat.

Asphalt/Bitumen: Make sure surface is free of loose dirt and dust. Prime the surface with Tekprime diluted 1 part water to 1 part Tekprime mixed with a little neat cement, sand or adhesive to form a brush on slurry.

Ceramic tiles: Remove loose dirt and dust. Prime the surface with Tekprime diluted 1 part water to 1 part Tekprime mixed with a little neat cement, sand or adhesive to form a brush on slurry.

Plywood: Plywood must be 12mm (minimum), exterior grade, screwed (not nailed) to the substrate at 6 inch/150mm centres. Ensure there is sufficient ventilation beneath substrate and that the substrate is strong enough to support the weight of the leveller, adhesive and the final covering being applied. Make sure surface is free of loose dirt and dust.

Underfloor heating: When applying Tekcem 550 onto existing underfloor heating you must switch heating off 1 week prior to application to allow the substrate to cool sufficiently. Once Tekcem 550 has been applied, allow 1 week before switching heating on. Start with a low temperature, gradually increasing the temperature over 2 weeks.

Chipboard: Chipboard must be a minimum of 18mm and must be screwed (not nailed) every 6 inches/150mm centres to the substrate. Ensure there is sufficient ventilation beneath substrate and that substrate is strong enough to support the weight of the leveller, adhesive and the final covering being applied. Make sure surface is free of loose dirt or dust.

T/g boarding and floorboards: Existing tongue and groove boards should be screwed down to the joists every 6 inches/150mm to provide a rigid, flat and adequately braced surface. Ensure there is sufficient ventilation beneath the substrate and that the substrate is strong enough to support the weight of the leveller, adhesive and the final covering being applied. Make sure surface is free of loose dirt or dust.

Anhydrite/Gypsum Screed: Ensure the Anhydrite/Gypsum screed is confirmed dry via consistent moisture readings across the whole surface. Anhydrite screeds must have a moisture reading of less than 75% RH before work can commence. If it is a new screed, allow 1 day per mm for drying. Remove any laitance from the surface mechanically and remove all dust ideally by vacuum.

Anhydrite/Gypsum screeds must be sealed prior to applying Tekcem 550 by applying one coat of Tekprime S diluted three parts water to one part Tekprime S and allow to dry, followed by a second neat coat of Tekprime S.

Vinyl Tiles/Sheet Vinyl: Ensure the existing vinyl tiles/sheet is firm, stable and well adhered to the substrate to which the vinyl was originally applied to. Make sure surface is free of loose dirt and dust. Prime the surface with Tekprime diluted 1 part water to 1 part Tekprime mixed with a little neat cement or sand to form a brush on slurry.

Power Floated Concrete: Ensure the surface has been allowed 7 days to cure. Power floated concrete can leave a loose top layer and/or laitance once it has cured. Remove the loose top layer and any laitance from the surface mechanically or by acid etching and remove all dust and particles ideally by vacuum. Once all laitance has been removed, prime the surface with Tekprime diluted 3 parts water to 1 part Tekprime.

HEALTH AND SAFETY

This product contains Portland cement. When used and stored as instructed the product will contain no more than 0.0002% (2ppm) of water soluble chromium of the total dry weight of the cement components. Use of this product after the advised storage time may increase the risk of allergic reaction.

The information above is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use, or the possibility of variations of working conditions and of workmanship outside our control.

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