



TEKFLOOR

TEKCEM 025

Tekcem 025 is ideal for application over sound substrates including concrete and sand / cement screeds. It can be applied at thicknesses from 0mm (featheredged) to 25mm in one application. Tekcem 025 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 025 is shrinkage compensated and provides the perfect smoothing material for most floor finishes including thinner vinyls.

ADVANTAGES

- Can be applied from featheredge to 25mm in one pour
- Single part, no additives required, just add water
- Light foot traffic after 3 hours
- Flexible
- Protein free
- Shrinkage compensated
- Pumpable
- High durability

USES

Smoothing / fine levelling of a surface prior to application of floor finishes.

SURFACE PREPARATION

Before starting, all substrates must be clean and dry. 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. All surfaces must be primed with "Tekprime" or other suitable primer in accordance with the data sheets for the primer. Please note that absorbant surfaces may require more extensive use of primer and / or more than one coat (see "substrates" overleaf).

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 affect the strength and surface finish of the material and will extend drying and overlaying times.

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 25mm. If greater thickness is required allow to dry between layers of not more than 25mm.

Tekcem 025 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 025 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	18.02 N/mm ²
Compressive Strength @ 7 days	25.64 N/mm ²
Compressive Strength @ 28 days	32.09 N/mm ²
Flexural Strength @ 24 hours	4.58 N/mm ²
Flexural Strength @ 7 days	6.16 N/mm ²
Flexural Strength @ 28 days	7.24 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.

Underfloor heating:

When applying Tekcem 025 onto existing underfloor heating you must switch heating off 1 week prior to application to allow the substrate to cool sufficiently. Once Tekcem 025 has been applied, allow 1 week before switching heating on. Start with a low temperature, gradually increasing the temperature over 2 weeks.

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 025 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.

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.