

TEKCEM 375 is a rapid setting and hardening, high strength, single part cementitious smoothing underlayment, suitable in industrial, commercial and domestic flooring installations.

## OVERVIEW

TEKCEM 375 HEAVY DUTY DEEP FILL BASE SCREED is ideal for application over a wide range of substrates including concrete and sand / cement screeds. It can be applied at thicknesses from 3mm to 75mm in one application.

TEKCEM 375 is fast setting and can receive a tiled floor finish after 8 hours or most other types of finish at 24 hours (at 20°C).

TEKCEM 375 is shrinkage compensated and provides the perfect base for most floor finishes.

## TECHNICAL DATA

Packaging	25kg lined paper sacks
Water addition	4.25 per 25kg unit
Working time	20-30minutes at 20°C
Time to receive tiled floor finishes	8 hours
Time to receive resilient floor finishes	8 hours (3mm application)* 24 hours (4-15mm application)* 48 hours (16-30mm application)* 72 hours (31-50mm application)* 7 days (for depths >50mm)*
<i>* depending on porosity, nature of flooring</i>	
Application thickness	3mm - 75mm in one application
Consumption of powder per mm	1.7kg/mm/m <sup>2</sup>
Compressive strength to BS EN 13892-2	28 days : 35.0N/mm <sup>2</sup>
Flexural strength to BS EN 13892-2	28 days : 6.0N/mm <sup>2</sup>

## HEALTH & SAFETY

This product is not classified under the Chemicals Hazard Information and Packaging for Supply Regulations. A Material Safety Data Sheet relating to this product can be obtained from TEKCEM LTD. Please dispose of packaging and waste responsibly.

## BENEFITS

- Can be applied from 3mm to 75mm in one pour.
- Single part, no additives required, just add water.
- Light foot traffic after 3 hours.
- Protein free.
- Shrinkage compensated.
- Pumpable.
- High durability.
- Suitable for underfloor heating.
- Can be used prior to the application of TEKCEM 320 Industrial for preparing a strong, sound, subfloor surface in highly trafficked areas.

## COVERAGE

Applied thickness	No. of bags required per 100m <sup>2</sup>
3mm	21
6mm	41
12mm	82
30mm	204

## WARNING

Whilst the information provided in this datasheet is true and accurate to the best of our knowledge, it may contain information which is unsuitable under certain circumstances since materials, site conditions and method of application vary with each application.

TEKCEM LTD cannot be held responsible for any loss or damage due to incorrect use or from the possibility of variations in working conditions and/or workmanship beyond our control. The user alone is responsible for any consequences deriving from the product.

## STORAGE & SHELF LIFE

Six months in unopened bags and stored under good, cool and dry conditions.

Updated: 16/05/2019

## SETTING NEW LEVELS

The Screed Development Centre  
Unit 1 Power Park, Commercial Road  
Goldthorpe Industrial Estate

Full installation guide can be found on our website:

[WWW.TEKCEM.CO.UK](http://WWW.TEKCEM.CO.UK)  
[WWW.TEKFLOOR.CO.UK](http://WWW.TEKFLOOR.CO.UK)

## TOOLS REQUIRED

- Steel trowel
- Spiked roller
- Mixing bucket, slow speed drill and paddle (small projects)
- Mixer / pump (high volume applications)

Wash all tools thoroughly with water directly after use.

## 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, laitance, 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 DPM.

## SUBSTRATES

### Concrete/screed:

Ensure new concrete is confirmed dry via consistent moisture readings across the whole surface. Sand/cement screeds must have a surface relative humidity 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 and debris, ideally by vacuum.

It is necessary to prime sand/cement screeds to aid adhesion, maintain workability and prevent air bubbles rising to the surface. Prime with TEKPRIME diluted 3 parts water to 1 part neat TEKPRIME. Very porous substrates will require more than one coat.

### Asphalt/ceramic/quarry/stone tiles:

Make sure surface is clean and free of loose dirt and dust. Prime the surface with TEKPRIME diluted 1 part water to 1 part neat TEKPRIME mixed with a little cement and sand to form a brush on bonding slurry.

### Plywood/chipboard/floorboards:

Plywood (12mm minimum) and chipboard (18mm minimum), must be exterior grade and screwed (not nailed) to the substrate at 6 inch / 150mm centres. Existing tongue and groove boards should also be screwed down to the joists at 6 inch / 150mm centres.

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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 and dust. Prime plywood with TEKPRIME diluted 3 parts water to 1 part neat TEKPRIME, Prime chipboard with TEKPRIME diluted 2 parts water to 1 part neat TEKPRIME and prime floorboards and any exposed edges and joints with neat TEKPRIME.

### Underfloor heating:

**Warm water UFH system** - The system must have been fully commissioned, brought up to the maximum temperature and ideally switched off 48 hours before application. In the absence of other heat sources, the UFH may be set to 'cut back' to achieve an air temperature of 15°C. Any expansion or movement joints must be carried through to the floor covering surface.

**Radiant electrical UFH system** - TEKCEM 375 can also be used over electrical UFH systems where cables are fitted to a sound, strong, mechanically-fixed cement backer board. Apply TEKPRIME diluted at 3 parts clean water to 1 part TEKPRIME and allow to dry fully. TEKCEM 375 may also be used where electrical UFH is used over cementitious subfloors. Priming should be as per the substrate. In all cases TEKCEM 375 must be applied at a thickness of 5mm above the cables for resilient, textile and timber applications and a minimum of 3mm for application of stone, ceramic or porcelain products.

### 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 and remove all dust and debris ideally by vacuum. Once all laitance and/or loose material have been removed, prime the surface with TEKPRIME diluted 3 parts water to 1 part neat TEKPRIME.

## MIXING BY HAND

Slowly mix 25kg of TEKCEM 375 powder to 4.25 litres of water. Add the powder slowly to avoid clumping. Continue to mix until a uniform consistency is achieved. Do not exceed the suggested water addition as this

will adversely affect strength, surface finish and will extend drying and overlaying times.

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

## MIXING BY PUMP

Mix in accordance with the pump manufacturer's recommendations. The rate of water addition should be adjusted to give a smooth, cohesive mix with no surface bleed or segregation. Carry out flow checks at regular intervals during pumping.

## APPLICATION

Apply by pouring or pumping to the desired thickness and trowel finish to a maximum of 75mm. If greater thickness is required allow to dry between layers of not more than 75mm. TEKCEM 375 will begin curing in 1 to 2 hours and should be "walkable" after approximately 3 hours at 20°C. These times may be decreased by higher temperatures or increased if colder.

TEKCEM 375 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.

## LIMITATIONS

The application of TEKCEM 375 should only be carried out when the floor temperature is 5 - 30°C and the ambient relative humidity is below 75%. These conditions should be maintained during application and drying. Do not use in areas subject to permanent water immersion.

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