

Ideal for repairing small cracks in internal floors, concrete stair edges and walls.
Can also be used to create coves and ramps.

OVERVIEW

TEKCEM SCREEDPATCH is a rapid drying, fast setting and hardening cementitious repair mortar for internal applications.

The slump free characteristics of TEKCEM SCREEDPATCH make it ideal for both vertical and horizontal repairs.

TEKCEM SCREEDPATCH is ideal for overcoming unexpected problems on site such as damaged subfloors, spalled areas of screed and for the infill of areas around pipework.

TEKCEM SCREEDPATCH is conveniently packaged in an outer plastic container to minimise potential damage in transit and also to maintain the reactivity rates of the cements once the bag is opened.

TECHNICAL DATA

Packaging	10kg bag supplied in oversized protective bucket.
Classification	CT-C40-F4
Specification	BS EN 13813:2002
Working time	10 minutes at 20°C
Walk on hardness time	30 minutes at 20°C
Time to receive resilient floor finishes	90 minutes
Compressive strength to BS EN 13892-2	1 day >25.0 N/mm ² 7 day >35.0 N/mm ² 28 days >40.0 N/mm ²
Flexural strength to BS EN 13892-2	1 day >3.0 N/mm ² 7 day >4.0 N/mm ² 28 days >4.5 N/mm ²

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.

BENEFITS

- Rapid setting.
- Slump free.
- Maintains profile.
- Easy to trowel.
- 30 minutes foot traffic.

COVERAGE

Applied thickness	Coverage per unit
2.0mm	3.2m ²
6.5mm	1.0m ²
10.0mm	Bulked out with graded aggregate at a ratio of 1:1 by volume will cover approx. 1.0m ²

Coverage is for guidance only. Based on a smooth, non absorbent subfloor.

HEALTH & SAFETY

Please ensure that appropriate PPE is used when preparing, mixing and applying this product. A Material Safety Data Sheet relating to this product can be obtained from TEKCEM LTD. Please dispose of packaging and waste responsibly and in accordance with local authority requirements.

STORAGE & SHELF LIFE

Six months in unopened bags and stored under good, cool and dry conditions. Please note: the use of this product after the declared storage period may increase risk of an allergic reaction.

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SETTING NEW LEVELS

The Screed Development Centre
Unit 1 Power Park, Commercial Road
Goldthorpe Industrial Estate
Rotherham, S63 9BL

Full installation guide can be found on our website:

WWW.TEKCEM.CO.UK
WWW.TEKFLOOR.CO.UK
Sales: 01709 261 007
Technical: 03300 553 714

TOOLS REQUIRED

- Steel trowel
- 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 effect 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

For repairs to worn or trafficked areas it is necessary to abrade the surface of the areas to remove contaminants including previous adhesive residues and any weak surface layers. Very dense non-absorbent surfaces should be lightly abraded to remove contaminants and provide a key. A sound strong textured surface is required prior to any application of TEKCEM SCREEDPATCH

Concrete/screed:

Ensure that 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.

Calcium sulphate screed:

Ensure that the calcium sulphate screed is confirmed dry via consistent moisture readings across the whole surface.

Calcium sulphate 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 for depths up to 40mm and 2 days per mm thereafter.

Remove any laitance from the surface mechanically and remove all dust and debris, ideally by vacuum.

Calcium sulphate screeds must be sealed prior to applying TEKCEM SCREEDPATCH by applying one coat of TEKPRIME diluted 3 parts water to 1 part neat TEKPRIME and allow to dry, followed by a second coat of 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.

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

NB: Only mix up the amount of product that can be applied within the working time of approximately 10 minutes.

Do not try to reconstitute material which has begun to harden off in the mixing bucket - discard this and mix a fresh batch.

Always use a clean mixing bucket.

Add clean cold water to a suitably sized mixing bucket. Gradually add TEKCEM SCREEDPATCH to the water whilst continually mixing, only adding sufficient powder to achieve lump free mortar. Continue to mix until a uniform consistency is achieved.

The mix ratios are approx. 3.5 parts powder to 1 part water when measured by volume.

Assess the slump characteristics by lifting the material with a steel trowel and holding it at a 90 degree angle. Add more powder (whilst further mixing) if required for any vertical applications.

Do not exceed the suggested water addition as this will adversely affect strength, surface finish and will extend drying and overlaying times.

APPLICATION

Where application thicknesses are set to exceed 20mm, it is recommended that the product is 'bulked out' using a graded aggregate of nominal 5-10mm at a volume of 1 part aggregate to 1 part powder. The aggregate should be added to the mixed TEKCEM SCREEDPATCH and further mixed to attain a uniform product.

For repair applications, apply the mixed material using a steel trowel. Push firmly into the crack, hole or recess and smooth over using the trowel.

NB: TEKCEM SCREEDPATCH should wet out onto the substrate. If the product 'rolls' off under trowelling this indicates that the substrate will need to be dampened and/or that the mortar has been mixed too dry.

Where clean neat edges are required, apply the product leaving slightly proud of the surface and then trim off any excess using a wet trowel. This can normally be carried out after approximately 10-15 minutes. Further smoothing can be carried out on the surface if required with a lightly dampened trowel or sponge float.

If an overall smoothing compound application is to take place after the repairs applying one coat of TEKPRIME diluted 3 parts water to 1 part neat TEKPRIME and allow to dry

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For smoothing, ramping, resurfacing or coving applications apply the mixed TEKCEM SCREEDPATCH to the surface at the required depth.

The coverage area that can be worked on will depend on the thickness and working time of the mixed product, so it is recommended not to attempt too large an area. Allow the TEKCEM SCREEDPATCH to firm up (to resist finger pressure) before finishing off using a wet trowel or wet sponge (for curved areas).

Where larger areas are being carried out it is recommended that a temporary framework be created and removed once the product has gone through its initial set. Adjacent areas can then be carried out.

Always lightly dampen exposed edges to ensure that a good wetting out occurs on subsequent applications.

CURING & DRYING

Curing and drying times will be subject to ambient conditions as well as the thickness of product application. Under normal conditions TEKCEM SCREEDPATCH will begin to harden within 10-15 minutes and will take foot traffic after approximately 30 minutes. Floor coverings may be applied after as little as 90 minutes for applications up to 3mm thick.

CLEANING

Tools should be thoroughly cleaned with water to remove excess materials immediately after use.

LIMITATIONS

TEKCEM SCREEDPATCH should only be applied when the floor temperature is between 5 - 30°C and the ambient relative humidity is below 75%. Good site conditions (i.e. air temperature of 20°C, air humidity of 75% and good ventilation) should also be maintained during application and drying.

Cold, humid or damp sites, or those with poor airflow, will prolong curing and drying times. Avoid strong draughts and direct sunlight during curing which can 'force dry' the product and result in excess tension and cracking.

Do not use in areas subject to permanent water immersion.