

An fast setting levelling and smoothing compound, formulated external use.
Ideal for use on sand/cement, concrete, tile backer boards, as well as ceramic, porcelain and natural stone tiles. Can also be used in swimming pools and beneath artificial turf.

OVERVIEW

TEKCEM LEVELEX 250 is a fast setting fibre reinforced self levelling and smoothing compound formulated especially for smoothing and levelling external subfloors..

The specially formulated powder of TEKCEM LEVELEX 250 gives an extremely strong, fast setting, free flowing mix that can be applied from 2mm to 50mm in one application.

TEKCEM LEVELEX 250 is ready to receive light foot traffic after 3 hours and can receive floor coverings such as ceramic, porcelain and natural stone tiles after 3 hours.

TECHNICAL DATA

Packaging	25kg bag
Colour	Grey powder
Classification	CT-C30-F10
Specification	BS EN 13813:2002
Working time	20 - 30 minutes at 20°C
Foot traffic	3 hours at 20°C
Minimum application temperature	5°C
Flow properties using 30mm x 50mm flow ring	135mm - 145mm
Compressive strength to BS EN 13892-2	1 day >14.0 N/mm ² 7 day >22.0 N/mm ² 28 days >30.0 N/mm ²
Flexural strength to BS EN 13892-2	1 day >4.0 N/mm ² 7 day >6.0 N/mm ² 28 days >10.0 N/mm ²

BENEFITS

- Developed for external use.
- Apply from 2mm to 50mm in one application.
- Suitable for use as a wearing surface.
- Foot traffic after 3 hours.
- Tileable after 3 hours
- Pumpable.

COVERAGE

Applied thickness	Coverage per 25kg unit
3.0mm	5.0m ²

STORAGE & SHELF LIFE

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

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.

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.

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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 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

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 the surface using TEKCEM ACTIPRIME+ diluted 3 parts water to 1 part neat TEKCEM ACTIPRIME+. 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 TEKCEM ACTIPRIME+ diluted 1 part water to 1 part neat TEKCEM ACTIPRIME+ 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.

Calcium sulphate screeds must be sealed prior to applying TEKCEM LEVELEX 250 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.

Power floated concrete:

Ensure that 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 TEKCEM ACTIPRIME+ diluted 3 parts water to 1 part neat TEKCEM ACTIPRIME+.

MIXING BY HAND

Add clean cold water to a suitably sized mixing bucket. Gradually add TEKCEM LEVELEX 250 to the water whilst continually mixing, only adding sufficient powder to achieve a lump free mortar.

Add the powder component slowly whilst mixing with an electric paddle and continue to mix for a further 2 minutes until a smooth and lump free consistency is obtained. TEKCEM LEVELEX 250 is mixed with a water content of 4.8 – 5.0 litres of water per 25kg of powder.

Once mixed do not add additional water. Exceeding 5.0 litres of water per 25kg will result in water bleed and therefore extended drying times and a weakened mix.

Once mixed, TEKCEM LEVELEX 250 will remain workable in the bucket for 20 - 30 minutes at 20°C.

APPLICATION

Apply a small quantity onto the prepared surface and trowel down lightly to a depth between 2mm and 50mm. The use of a spiked roller is recommended immediately in thin applications in order to remove entrapped air and smooth out flow lines.

If a depth greater than 50mm is required, allow the first application to dry and prime the surface with TEKCEM ACTIPRIME+ at a 3:1 ratio before applying a subsequent coat.

Alternatively, the product can '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 LEVELEX 250 and further mixed to attain a uniform product.

TEKCEM LEVELEX 250 is ideal for pump application. Mix in accordance with the pump manufacturer's instructions and ensure that regular flow checks are carried out. Ensure the water content is correct and that there is no surface separation.

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

CURING & DRYING

Curing and drying times will be subject to ambient conditions as well as the thickness of product application. Under normal conditions TEKCEM LEVELEX 250 will accept foot traffic after approximately 3 hours.

LIMITATIONS

TEKCEM LEVELEX 250 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.

Where TEKCEM LEVELEX 250 is used in an installation that will be submerged, such as swimming pools, the product must be allowed to fully cure for 28 days before being submerged in water.

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SETTING NEW LEVELS

The Screed Development Centre
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Full installation guide can be found on our website:

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