

Tekcem

Gyptek Leveller



Gyptek Leveller has been designed specifically as an overlayment to calcium sulphate based screeds (commonly called anhydrite, alpha hemihydrate or gypsum screeds). It is ideal for the preparation of a floor prior to overlaying with all common floor coverings including vinyl, laminates, carpet, stone and ceramic tiles. Suitable resins and coatings can also be used.

OVERVIEW

Gyptek Leveller is a high performance calcium sulphate based levelling compound designed specifically to be applied over calcium sulphate based screeds prior to the installation of floor coverings.

The excellent flow and self levelling properties of Gyptek Leveller provide the perfect surface prior to the installation of floor coverings such as vinyl, linoleum, laminate, carpet, resin, ceramic, porcelain and natural stone tiles.

It can be applied over screeds containing underfloor heating systems. It can be applied in one application at thicknesses from 2mm to 30mm. It is fast setting and, depending on thickness and drying conditions, can usually receive floor finishes after just 24 hours.

TECHNICAL DATA

Packaging	20kg lined paper sacks	
Water addition	4.2 - 4.6L per 20kg unit	
Working time	20 - 30 minutes at 20°C	
Time to receive tiled floor finishes	3 hours	
Time to receive resilient floor finishes	24 hours	
Application thickness	2 to 30mm	
Consumption of powder per mm	1.6kg/m ² /mm	
Compressive strength	28 days	>30MPa
Flexural strength	28 days	>7MPa

BENEFITS

- Developed specifically for overlayment of calcium sulphate based screeds.
- Ideal for use over underfloor heating systems.
- Can be applied at thicknesses ranging from 2mm - 30mm in one pour.
- Excellent self levelling properties.
- Fast drying, can receive light foot traffic after 2 to 3 hours.
- Suitable for applications by mixer/pump.
- Protein free.
- Just add water, no additives required.

COVERAGE

Applied thickness	Approx. coverage per 20kg unit
2mm	6m ²
5mm	2.5m ²
10mm	1.2m ²
15mm	0.8m ²
20mm	0.6m ²
30mm	0.4m ²

SETTING NEW LEVELS

The Screed Development Centre
Unit 5 The Business Centre, Barlow Drive, Winsford,
Cheshire CW7 2GN

www.tekcem.co.uk

Sales: 03300 555 227
Technical: 03300 553 714

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Gyptek Leveller



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

Surfaces must be clean and free from dust, grease or other contaminants. Any loose or flaking material must be removed and there must be no residual surface laitance. If there is any doubt concerning the suitability of a surface or measurement of moisture please seek technical advice.

SUBSTRATES

Anhydrite/gypsum screed:

Ensure the anhydrite/gypsum screed is confirmed dry via consistent moisture readings across the whole surface.

Anhydrite/gypsum screeds must have a surface relative humidity reading of less than 75% RH (0.5% residual moisture) before work can commence.

With certain flooring configurations where Gyptek Leveller is used below Gyptek Adhesive, it may be possible to apply Gyptek Leveller at 87% RH (1.5% residual moisture) please seek technical advice.

As a guide to the drying of new anhydrite/gypsum screeds, allow 1 day per mm for drying for depths up to 40mm and 2 days per mm thereafter.

Prepare the screed by mechanically sanding to remove any laitance, open up the surface and provide a good mechanical key.

Remove all dust and debris ideally by vacuum. Anhydrite/gypsum screeds must be sealed prior to applying Gyptek Leveller by applying one coat of Tekprime A diluted three parts water to 1 part neat Tekprime A and allow to dry. Note that porous surfaces may require more than one coat of primer. Underfloor heated screeds will typically require two coats of primer.

Underfloor heating:

The underfloor heating must be commissioned prior to the application of Gyptek Leveller. When applying Gyptek Leveller onto existing underfloor heating the heating must be switched off 1 week prior to application to allow the substrate to cool sufficiently. Once Gyptek Leveller has been applied, allow 1 week before switching the heating on. Start with a low temperature, gradually increasing the temperature (eg by 2°C per day) over a 2

week period.

MIXING BY HAND

Slowly mix 20kg of Gyptek Leveller powder to 4.2 litres of water. Add the powder slowly to avoid clumping. Continue to mix until a uniform consistency is achieved. If a slightly more fluid mix is required more water can be added whilst mixing.

Up to 4.6 litres maximum per 20kg unit can be added. Do not exceed 4.6 litres as this will adversely affect strength and 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 20 mins of first mixing.

MIXING BY PUMP

Mix in accordance with the pump manufacturer's recommendations. Care must be taken to ensure that the water addition rate is correct. 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 lightly trowel finish to a maximum of 30mm. A spiked roller will aid the removal of any entrapped air.

DRYING

The drying time of Gyptek Leveller is dependent on the ambient conditions. In good drying conditions, on all surfaces at a nominal thickness of 3mm, textile floor coverings and ceramic tiles can be applied after 24 hours and resilient floor coverings after 48 hours. For greater thicknesses, allow an extra day drying time per mm of Gyptek Leveller.

If there is any doubt, ensure that a surface relative humidity of 75% RH or less or residual moisture content of 0.5% or less is achieved before applying the floor finish.

LIMITATIONS

Gyptek Leveller is for internal use only, it cannot be used externally. It is also not suitable for use in wet areas such as showers, wet rooms or swimming pools.

The application of Gyptek Leveller 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.

If there is no air flow or change of air within the site then the drying time may be extended.

WARNING


The information provided in this datasheet corresponds to the best of our expert knowledge and experience. Whilst it 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.

HEALTH AND 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.

STORAGE AND SHELF LIFE

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

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Tekcem Ltd The Screed Development Centre Unit 5 The Business Centre Barlow Drive, Winsford Cheshire CW7 2GN	
Calcium sulphate screed material for use internally in buildings	
EN 13813	Class CA-C30-F7
Reaction to fire	E
Compressive strength	C30
Flexural strength	F7

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