

# GYPTEK ADHESIVE

**GYPTEK ADHESIVE** can be applied to calcium sulphate based screeds (commonly called anhydrite, alpha hemihydrate or gypsum screeds) with 87% surface relative humidity or less. Unlike cement based adhesives, it is completely compatible with anhydrite/gypsum screeds. Suitable tiles include: porcelain, ceramic, terracotta, quarry, natural stone, mosaics, composite and quartz.

## OVERVIEW

**GYPTEK ADHESIVE** is a gypsum based, flexible floor tile adhesive with high performance rapid setting qualities.

GYPTEK ADHESIVE is polymer modified with the ability to adhere a multitude of tiles e.g. ceramic, porcelain and natural stone to calcium sulphate based screeds.

GYPTEK ADHESIVE is flexible and is suitable for underfloor heating systems.

## BENEFITS

- Designed specially for fixing tiles to calcium sulphate based screeds.
- Walk on and grout after 3 hours.
- 3mm to 12mm bed depth.
- Just mix with water, no additives.
- Flexible.
- Compatible with calcium sulphate based screeds.

## TECHNICAL DATA

Packaging	20kg lined paper sacks
Water addition unit	4.8 - 5.2L per 20kg unit
Time before grouting	3 hours at 20°C
Application thickness	3-12mm
Working time	45-60 minutes at 20°C
Consumption of powder per mm thickness	1.5kg/m <sup>2</sup> /mm

## COVERAGE

Applied thickness	Approx. coverage per 20kg unit
3mm	5m <sup>2</sup>
6mm	2.5m <sup>2</sup>
12mm	1.25m <sup>2</sup>



## 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.

Updated: 16/05/2019

## 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](http://WWW.TEKCEM.CO.UK)

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

Sales: 01709 261 007

Technical: 03300 553 714

## TOOLS REQUIRED

- Notched trowel / spreader
- Float
- Mixing bucket, slow speed drill and mixing paddle.

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 to be tiled is confirmed dry via consistent moisture readings across the whole surface. Anhydrite/gypsum screeds must have a surface relative humidity reading of less than 87% RH before tiling can commence. This will equate to 1.5% residual moisture. 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 ADHESIVE by applying TEKPRIME diluted three parts water to 1 part neat TEKPRIME and allow to dry. Note that only one coat of diluted primer is required.

### Underfloor heating:

The underfloor heating must be commissioned prior to the application of GYPTEK ADHESIVE. When tiling onto existing underfloor heating the heating must be switched off 1 week prior to tiling to allow the substrate to cool sufficiently. Once the tiling has been completed, allow 1 week before switching the heating on. Start with a low temperature, gradually increasing the temperature (e.g. by 2°C per day) over a 2 week period.

### Electric Underfloor Heating:

The underfloor heating element should be embedded in a 3-5mm layer of GYPTEK LEVELLER (or equivalent) prior to tiling, this will protect the underfloor heating element.

Once the tiling has been completed, allow 1 week before switching the heating on. Start with a low temperature, gradually increasing the temperature (e.g. by 2°C per day) until the required temperature is achieved.

## MIXING

Slowly mix small quantities of GYPTEK ADHESIVE powder to water to produce a smooth consistency. As a guide, the powder to water ratio should be 4.8 – 5.2 litres of water per 20kg of GYPTEK ADHESIVE powder.

It is advisable to work with small mix quantities at first until accustomed to the feel and working time of the product.

Do not add additional water after mixing as this will weaken the GYPTEK ADHESIVE.

## APPLICATION

### Thin bed:

On a flat even substrate, spread with a uniform thickness of 3mm and then rib using a notched trowel or spreader. Bed the tiles into place using a twisting motion ensuring there are no pockets of air and ensuring full coverage of adhesive.

### Thick bed:

If substrate conditions do not allow for the application of a thin bed of adhesive, GYPTEK ADHESIVE can be spread at a thickness of 12mm. Spread as a floated coat then rib using a notched trowel or spreader.

Bed the tiles into place using a twisting motion ensuring there are no pockets of air and ensuring full coverage of adhesive.

### Additional Information:

When fixing large format tiles, natural stone tiles and tiles that have deep studs on the back, you must skim the back of the tile with a thin 1-2mm layer of Gyptek Adhesive.

This will significantly improve the bond strength.

Use a damp sponge to clean surplus adhesive from tiles and joints as soon as possible.

## GROUTING

Only grout when the adhesive has set; depending on conditions this is usually 3 to 4 hours.

Where there is likely to be differential movement of the substrate and applied rigid flooring such as in underfloor heating a flexible grout must also be used.

## LIMITATIONS

GYPTEK ADHESIVE should not be used in shower areas, wet rooms or where there is a high risk of permanent dampness. The application of GYPTEK ADHESIVE should only be carried out when the floor temperature is 5 - 30°C. Ensure that these conditions are maintained during application and curing of GYPTEK ADHESIVE.

## 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.