

# AnhyFix

## Gypsum Based, Flexible, Rapid Setting, Floor & Wall Tile Adhesive

Tilemaster Anhyfix is a gypsum based, polymer modified, flexible, rapid setting floor and wall tile adhesive. Anhyfix has been specially formulated for fixing a large variety of tiles such as ceramic, porcelain and natural stone to anhydrite/calcium sulphate screeds and gypsum based substrates such as gypsum plaster and plasterboard. Anhyfix is a flexible adhesive and is suitable for use over underfloor heating systems. Its rapid setting capability allows for light foot traffic and grouting after 3 hours.

Anhyfix can be applied to anhydrite/calcium sulphate screeds with 85% Relative Humidity (RH) or less. Anhyfix can be applied directly to anhydrite/calcium sulphate screeds. Unlike cement based adhesives, Anhyfix is 100% compatible with anhydrite/calcium sulphate screeds. Anhyfix is suitable for use in internal locations only where dry conditions exist. **It is not suitable for use in wet areas such as showers, wet rooms and swimming pools.**

**Anhyfix cannot be used on cement based substrates such as sand/cement screed and concrete.**

### PREPARATION:

Before starting, all substrates must be clean, dry and strong enough to support the weight of the tiles and adhesive. Remove all dust, dirt, oil, grease and other contaminants that may affect adhesion.

#### Anhydrite/Calcium Sulphate Screeds:

Anhydrite/Calcium Sulphate Screeds must be confirmed dry via consistent moisture readings across the area to be tiled. Anhydrite/Calcium Sulphate Screeds must be below 85% Relative humidity before tiling can commence. As a guide for drying times of Anhydrite/Calcium Sulphate Screeds, allow 1 day per mm up to an overall depth of 40mm and allow 2 days per mm for anything above 40mm.

Anhydrite/Calcium Sulphate Screeds often dry with laitance (a shiny, hard crust) on the surface. The laitance must be removed before tiling commences by mechanically sanding and/or abrading the surface of the screed. Once the laitance has been removed, the screed should be vacuumed to remove all loose dust, dirt and contaminants.

Prime the surface of the screed prior to tiling with Primeplus or Flexmaster Primer diluted 3 parts water to 1 part primer. Only one coat of primer is required. Allow the primer to dry before tiling.

### ADVANTAGES:

- Developed specially for fixing tiles to anhydrite/calcium sulphate screeds
- Flexible, ideal for underfloor heating systems
- Ideal for ceramic, porcelain and natural stones tiles
- Walk on and grout after 3 hours
- 3mm – 12mm bed depth
- Simply mix with water, no additives required
- 100% compatible with anhydrite/calcium sulphate screeds and gypsum based substrates

### TILES:

- Porcelain
- Ceramics
- Terracotta
- Quarry
- Natural Stone
- Mosaics
- Composite
- Quartz

### SURFACES:

- Anhydrite/calcium sulphate screeds
- Gypsum Plaster
- Gypsum Plasterboard



# TECHNICAL DATA SHEET

## **Gypsum Plaster:**

Allow a minimum of 4 weeks for new plaster to dry. Polished/shiny plaster can be brushed with a stiff brush to slightly abrade the surface of the plaster in order to improve the key of the adhesive. Ensure the surface is free of all loose dust, dirt and contaminants. Prime the surface with Primeplus or Flexmaster Primer diluted 3 parts water to 1 part primer. Only one coat of primer is required. Allow the primer to dry before tiling.

## **Gypsum Plasterboard:**

Ensure the plasterboard is securely fixed to the substrate with all movement minimised. Ensure the surface is free of all loose dust, dirt and contaminants. Prime the surface with Primeplus or Flexmaster Primer diluted 3 parts water to 1 part primer. Only one coat of primer is required. Allow the primer to dry before tiling.

## **Underfloor Heated Screeds:**

Ensure the screed is sufficiently dry as stated above. The underfloor heating system should be commissioned before tiling commences. Gradually heat the screed, starting at the minimum temperature and increase the temperature by no more than 5°C per day. Heat the screed to a maximum of 25°C and maintain this temperature for 3 days before allowing the screed to cool down to room temperature. Turn off the heating 24 hours prior to tiling, or in cold conditions, the screed can be reduced to below 15°C. Once tiling has been completed, allow 7 days before turning the heating back on. Start at a low temperature, gradually increasing the temperature by 2°C on a daily basis until required temperature is achieved.

## **Electric Underfloor Heating:**

We recommend that the underfloor heating element is embedded in a 3 – 5mm layer of AnhyLevel prior to tiling in order to protect the underfloor heating element. If embedding the underfloor heating element in Anhyfix adhesive, you must be very careful not to contact the element with the trowel/spreader as this could cause damage to the heating element.

Once tiling has been completed, allow 7 days before turning the heating back on. Start at a low temperature, gradually increasing the temperature by 2°C on a daily basis until required temperature is achieved.

Tilemaster Adhesives recommend using Tilemaster Thermal Construction Board below electric underfloor heating as it makes the underfloor heating far more efficient and reduces the electricity consumption significantly.

## **APPLICATION:**

Only mix small quantities at a time until you have become accustomed to the setting nature of the product. Always add powder to water and mix to a smooth, buttery, lump-free consistency. Never add water after initial mixing as this will impair the strength of the adhesive. As an approximate guide for powder to water ratio, 20kg of Anhyfix requires approximately 4.8 – 5.2 litres of water. Product that has started to set must be discarded.

**Thin Bed:** On a flat even substrate, apply adhesive to substrate as a thin floated coat at a uniform thickness of 3mm and then rib using a notched trowel or spreader. Bed tiles into adhesive using a twisting action, ensuring full coverage of adhesive between tile and substrate also ensuring there are no hollow spaces or pockets of air.

**Thick Bed:** Where substrate conditions do not allow thin bed fixing, Anhyfix can be applied to a maximum bed thickness of 12mm. Apply adhesive to substrate as a floated coat and then rib using a notched trowel or spreader. Bed tiles into adhesive using a twisting action, also ensuring full coverage of adhesive between tile and substrate also ensuring there are no hollow spaces or pockets of air.

**NB.** When fixing large format tiles, it is highly recommended to skim the back of the tile with a thin 1mm layer of adhesive. This will significantly improve the bond strength.

**NB.** When applying tiles that have deep studs on the back, we strongly recommend covering the studs with adhesive.

Clean surplus adhesive from the tiles and joints as soon as possible as set adhesive will prove very difficult to remove later. Clean tools after use with water.

## **GROUTING:**

Do not start grouting until the adhesive has set. This time is usually 3 – 4 hours depending on the substrate and atmospheric conditions. If you are tiling an area of limited movement such as underfloor heating, you must use a grout a flexible grout.

The information contained on this technical data sheet is given voluntarily and in good faith. It is to the best of our knowledge true and accurate; however it may contain information which is inappropriate under certain conditions of use. The company cannot accept responsibility for any loss or damage due to inappropriate use or the possibility of variations of working conditions and of workmanship outside our control.

# TECHNICAL DATA SHEET

Bed Thickness	3mm – 12mm
Mix Ratio	4.8 – 5.2 litres per 20kg bag
Coverage	20kg will cover approximately 5 – 6 metre <sup>2</sup> at 3mm bed application
Open Time/Working Time	Approximately 3 hours at 20°C
Application Temperature	5°C to 30°C
Before Grouting	Approximately 3 hours at 20°C depending on the substrate and atmospheric conditions. The set time will be increased by lower temperatures and reduced at higher temperatures.
Storage	Store unopened, clear of the ground in cool, dry conditions and protect from excessive drafts.
Shelf Life	Stored correctly this product has a shelf life of 6 months
Colours	Off White
Pack Sizes	20kg
Note	All work must be carried out in accordance with British Standard Code of Practice for floor and wall tiling BS5385

