

## Notes for fixing tiles to JACKOBOARD® Plano

Rooms or areas that are frequently wet (e.g. bathrooms, showers and steam rooms) must be protected against moisture penetration. Rooms or components that are exposed to moisture are generally covered with ceramic stone tiles. These finishes are moisture resistant and water repellent. Since, however, the joints cannot be made permanently impenetrable to water, additional sealing is required.

The JACKOBOARD® Plano Construction boards provide a completely waterproof substrate for tiling that will not allow moisture to penetrate into the fabric of the building. Tiling can begin as soon as the joints between boards are sealed with waterproof tape and cement-based single part flexible tile adhesive.

In wet areas with high usage all joints between boards must be sealed with an appropriate sealing system, for example:

- JACKOBOARD® sealing set
- JACKOBOARD® Board-Fix adhesive in addition with JACKOBOARD® glass fibre tape and cement-based single part flexible tile adhesive
- JACKOBOARD® Board-Fix adhesive in addition with JACKOBOARD® sealing tape and cement-based single part flexible tile adhesive.

### Please note

The information in this leaflet is based on our experience and current materials specification. It represents no specific guarantee and the instructions for use outlined should be always observed together with considerations regarding building structure and existing Building Law.

# JACKOBOARD®



## Plano – Construction board for floor applications.



## General information

### 1.1 Scope

JACKOBOARD® Plano construction boards provide a completely waterproof substrate for tiling that will not allow moisture to penetrate the fabric of the building assuming that the joints between the boards have been appropriately treated.

The specially developed reinforced cement coating produces an extremely strong bond when used in conjunction with cement based single part flexible tile adhesive. In addition, the thermal insulation properties of the JACKOBOARD® Plano ensures that the performance of any electrical underfloor heating system is optimised.

These installation notes describe how to use and install JACKOBOARD® Plano construction boards as sub-structures for tiles for indoor applications. Notes are included for planning and executing normal applications in residential construction.

The recommendations apply solely to applications in domestic areas and not for heavy commercial applications, e.g. where rolling loads or severe concentrated loads may occur. Since the installation notes are intended for rooms with normal temperatures, the manufacturer should always be consulted prior to using JACKOBOARD® Plano construction boards for special applications, e.g. swimming baths, cold storage areas, etc.

### 1.2 Storage and use

JACKOBOARD® Plano construction boards should always be stored flat, irrespective of thickness. They must be protected against direct sunlight and moisture. Any use of agents using solvents must be avoided.

### 1.3 Substrate Preparation

The substrate must be able to support the intended load with minimal deflection. Any surface contamination must be removed prior to installation. If necessary the surface should be treated with a primer.

Newly installed concrete substrates should be completely cured prior to installation.

Wooden substrates must be rigid (not floating), able to support loads, dry, free from surface contamination and harmful infestation. Any unevenness must be corrected using self-levelling screeds or other such suitable materials as recommended by the manufacturer.

To avoid cracks forming in the tiles or grout lines care must be taken to ensure that the moisture content of any timber substrate equates to its equilibrium moisture content since the deformation of the wood as a result of the drying process could otherwise cause cavities to form beneath the construction boards.

## 2. Application

### 2.1 Use on cement based substrates

Using a 5 – 8mm notched trowel, a continuous bed of cement based single part flexible adhesive should be laid on the floor. The boards must be firmly bedded into the adhesive by gently pushing back and forth. The boards should be laid in a 'brick bond' pattern and checked for level with a spirit level.

### 2.2 Use on timber substrates

The timber floor should be rigid, true, firmly attached to any supporting elements and free from any gaps. The floor should be primed using a suitable primer. Using a 5 – 8mm notched trowel, a continuous bed of cement based single part flexible adhesive should be laid on the floor. The boards must be firmly bedded into the adhesive by gently pushing back and forth. The boards should be laid in a 'brick bond' pattern and checked for level with a spirit level.

Once the adhesive bonding of the construction boards is cured the construction boards must be additionally fixed with screws and washers (e.g. JACKOBOARD® 36mm dia. galvanised fixing washers with bugle head dry wall screws). At least 5 fixings per m<sup>2</sup> are required and the screws should penetrate a minimum of 20mm into the timber substrate. Care must be taken to avoid any services when screwing through timber floors. The screws should be spaced at east 30mm from the edge of the construction board and tightened until the head is flush with the surface.

### 2.3 Treatment of joints

Once the adhesive fixing the JACKOBOARD® Plano is cured the joints between the boards must be reinforced. In dry areas the joints between the construction boards must be reinforced with an alkaline resistant glass fibre tape (e.g. JACKOBOARD® glass fibre tape) with a minimum width of 120mm.

In wet areas the joints between the boards are sealed with waterproof tape (e.g. JACKOBOARD® sealing tape) and cement-based single part flexible tile adhesive.

In wet areas with high humidity levels (Shower area), the joints should be sealed with a suitable waterproofing system. We recommend the use of the JACKOBOARD® Waterproofing Sealing Set or the combination of JACKOBOARD® glass fibre tape and JACKOBOARD® Board Fix Adhesive.

In addition, care must be taken to seal any penetrations in the construction board, e.g. for pipes, screws or anchors, using suitable sealing agents (e.g. JACKOBOARD® pipe collars).

For additional reinforcement we would recommend covering the entire construction board surface with an additional layer of reinforcement weave.

#### **Notes for fixing tiles to JACKOBOARD® Plano construction boards:**

Tiling can begin as soon as the joints between the boards are sealed. Use cement based single part flexible tile adhesive. If heavy items of furniture are to be positioned on the tiled surface then tiles must be larger than 10 cm x 10 cm with a thickness of 7mm. Movement joints have to be built between the tile field and walls.