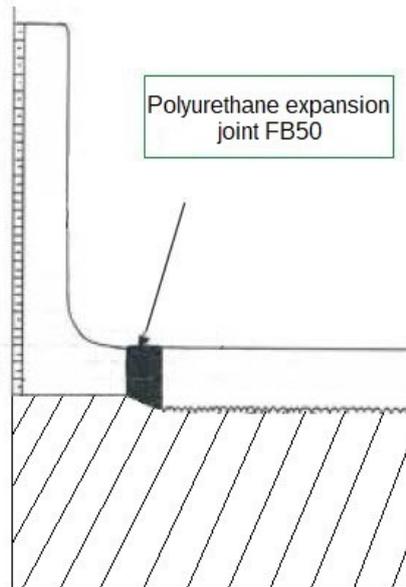


## Expansion joint for industrial flooring in tile and resin Range FB50



\* French regulation on VOC emissions : *Information on the level of emissions of volatile substances in indoor air, presenting a risk of inhalation toxicity, on a class scale ranging from A+ (very low emissions) to C (high emissions).*

### Packaging:

Product	Packaging	Color
FB50	In bucket of 3kg	Grey / Yellow

### Description of the product :

FB50 is a polyurethane-based mortar, designed for making expansion joints in ceramic tile and resin floors. The joint has the elasticity properties required for this use but retains sufficient rigidity to prevent crushing and chipping of the floor along the expansion joint. FB50 has good adhesion to ceramic tiles and resin flooring, as well as good chemical resistance.

### Field of application :

The FB50 is designed for all types of ceramic tile or resin flooring exposed to thermal and chemical influences. As FB50 is sufficiently rigid, it can be used for floors exposed to traffic, even in case of heavy or intensive traffic (nylon or iron wheels). In this case, we recommend using, in the case of tiled floors, bevelled tiles along the expansion joint or in any case reinforcing along the expansion joint with stainless steel corners to protect the edge of the flooring from damage.

### Technical specifications :

The chemical resistance table is available on request.

Density	1.4
Adhesion to ceramics	2.5 MPa
Tensile strength	3.5 MPa
Elastic modulus	15 MPa
Max. joint movement	+/- 10%

### **Role of the expansion joint for industrial floors:**

The function of this joint is to absorb the expansion that can occur in industrial floors. These expansions can be due to thermal effects, humidity or structural movements.

The joint must be clean and free of any mortar residue or other products in order to guarantee effective expansion of the flooring in all directions.

The dimensions of the expansion joints, as well as their spacing, are a function of the expected movements (temperature, chemical action, humidity, ...), the type of covering (tile, resin), as well as the type of laying (thin set mortar, thick set mortar, ...).

### **Preparation :**

FB50 consists of two parts (paste and hardener) pre-dosed in the factory. Add the contents of the hardener bag to the bucket of FB50 containing the paste, mixing constantly with an electric drill (approx. 400 rpm) for 3 min. At the end of the mixing, make sure that the preparation is well homogeneous (the colour will then be a uniform grey).

Take care to scrape the bottom and sides of the bucket well so that the preparation does not contain any residue of paste or unincorporated hardener.

In order to obtain a homogeneous colouring between kits, always proceed with mixing in the same way. For example, a dark grey colour will indicate an insufficiently mixed preparation.

### **Application and cleaning:**

Before starting the grouting, make sure that the joint space is free of all residues. The spaces to be joined and the floor covering must be perfectly clean and dry. The resin flooring must be cross-linked and free of residual water. To avoid stains on the tiles or the resin flooring, apply adhesive protection along the edges of the joint area.

In the case of a thick set mortar installation, first fill the bottom of the expansion joint with expanded polystyrene (or equivalent) up to the bottom of the tiles. You can also use a polyurethane bead with a diameter 5mm greater than the width of the joints. In the case of a thin set mortar installation or for a resin flooring, the FB50 rests directly on the concrete.

Before the curing of the joint, carry out the following operations as indicated below :

- Fill the entire space of the expansion joint, down to the bottom of the joint with the FB50 (laying with a pocket or trowel).
- Remove excess FB50.
- Smooth the surface of FB50 with a trowel.
- Remove the adhesive protection
- Remove any stains with acetone

The tools and mixer will also be cleaned with acetone.

**WARNING:** During the entire grouting operation, avoid contact between the FB50 and water or moisture as the FB50 reacts to their contact. The presence of moisture will cause a chemical reaction that produces carbon dioxide, causing the joint to swell irreversibly.

We offer accessories to facilitate the application of the FB50, for more information, please refer to the *Accessories* data sheet.

### **Consumption:**

In practice, the width of the expansion joints varies from 10 to 25 mm, the thickness corresponding to the thickness of the flooring (thickness of the tiles or thickness of the resin).

For a 15x15 mm joint, the consumption is approximately 0.35 kg/linear metre.

### **Protective measures :**

This product may cause skin and respiratory system irritation. To avoid skin contact, use suitable gloves. In case of skin contact, rinse thoroughly with soap and water. Always work in well-ventilated areas or use suitable respiratory protection. For further information, refer to the safety data sheet.

Before using acetone, please refer to your supplier's safety data sheet.

### **Storage:**

FB50 must be stored in a dry and frost-protected place. Store the product in its original packaging, properly closed and unopened. FB50 must be used within 12 months.

The information contained in this sheet is the result of our laboratory tests and is given for information purposes only. The information provided is based on our current knowledge. It is the responsibility of the user to check that this sheet is the most recent. We advise you to carry out preliminary tests before each use. As we have no influence on the use of our products or the installation conditions specific to each job site, we cannot be held responsible for the final result or any other indirect consequences.

