

Polyurethane waterproof layer under hard protective flooring FB70



Packaging :

FB70	For 1 kit	Sales unit	Color
Resin FB70	17.22 kg of resin in bucket	Per bucket of 17.22 kg	Black
Hardener FB70	2.78 kg of hardener in jerrican	Per jerrican of 2.78 kg	

Description of the product :

The FB70, based on polyurethane, is designed to provide a flexible waterproofing layer between the support and an antacid covering. FB70 can be used in multi-layer systems with ceramic tile or resin flooring such as DF POX AD. Due to its high flexibility, FB70 absorbs shear forces between the concrete support and the coating in case of structural deformation or thermal expansion.

Field of application :

FB70 is recommended for waterproofing industrial floors exposed to temperature and humidity variations, chemical and structural deformations, such as: production areas in the chemical industry, food or pharmaceutical industries, industrial kitchens, upper floors, vacuum production areas, etc. The FB70 has a very high resistance to chemical attacks. It can be used for both new construction and repairs. FB70 must be covered with a hard protection: tile coating or DFPOXAD resin flooring.

In the case of specific applications, we remain at your disposal for any further information.

Consumption:

FB70: approx. 2.5 kg/m² for a thickness of 2mm.

These values are given as an indication. Consumption varies according to the thickness of the waterproofing layer.

Technical specifications :

The chemical resistance table is available on request.

Characteristics	Results
Density	1.6
Modulus E	24.3 MPa
Tensile strength	3.9 MPa
Deformation at break	48%
Adhesion to concrete	> 2 MPa
Water absorption	< 0.7 %
Max. operating temperature	70°C

Preparation of concrete support :

The support must be perfectly flat, drawn with a ruler and smoothed (tolerance of ± 2 mm on a 2 m ruler). If the tolerances and flatness of the substrate are not acceptable, an epoxy RESURFACING mortar must be provided before laying. Slopes must be provided during the execution of the support.

During application, the support must be perfectly clean and dry: the concrete must be at least 4 weeks old even if a low humidity level is acceptable (max. 5%), however the surface must be absolutely dry. The support must be treated with PRIMER H an before applying FB70. After drying, PRIMER H provides some elasticity between the concrete support and FB70. PRIMER H must not be sanded to avoid any risk of puncturing in the waterproofing layer.

Preparation and application:

Add the hardener directly to the bucket containing the resin. Mix with a slow speed mixer for at least 2 min. until the mixture is homogeneous. Then pour the FB70 on the floor and spread the mortar with a V-toothed trowel (a size of 5x5 mm gives a thickness of 2 mm). Before the FB70 hardens, pass the debubbling roller over the entire surface.

CAUTION: During the entire laying process, avoid any contact between the FB70 and water or humidity as this product reacts to their contact. In fact, the presence of moisture initiates a chemical reaction that produces carbon dioxide, causing the mortar to swell irreversibly.

The installation of the ceramic flooring or resin flooring can begin 24 hours after the laying of FB70.

Open time :

The curing of the mortar begins immediately after mixing the two components. The rate of curing varies according to the temperature. For T = 20°C, open time: 15 minutes.

Cleaning :

Cleaning should be undertaken while the product is fresh as once it has cured it is very difficult to remove. Tools and utensils used for preparation and laying must be cleaned with solvent (acetone).

Protective measures :

When using this product, we recommend that you wear the appropriate safety equipment: goggles, gloves. Always use the FB70 in well ventilated areas. For more information, please refer to the safety data sheet.

Storage :

FB 70 must be stored in a dry and frost-protected place. Store the product in its original packaging, properly closed and unopened. FB 70 must be used within 12 months of the date of manufacture.

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.

