

# VitrA Fix FLOOR PLUS



Cement based, high performance, specially developed for floor applications, self-leveling, fast setting, extended working time, S1 class elastic adhesive mortar

## DESCRIPTION

It is a fast setting, cement based, thick filled porcelain tile adhesive with high adhesion strength and flexibility, fast setting, cement based, thick filled porcelain tile adhesive that can be safely used for bonding large sized ceramic tiles, porcelain tiles, granite, natural stone, travertine, marble, cotto, etc. to the floor, with 100% spreading feature behind the tile.

## AREAS OF USE

- Indoor and outdoor floor applications of large-sized porcelain tiles, granite, natural stone, ceramic tile, cotto, marble etc. coating materials
- In floor applications exposed to heavy pedestrian-load traffic such as shopping centers, schools, hospitals, hotels, banks, etc.
- Thanks to its fluid consistency, 100% coverage of the back of the tile without the need for double-sided adhesion method
- In applications with high temperature changes such as underfloor heating, cold storage, terrace etc.

## FEATURES

Material structure: High quality cement, elasticizing and setting accelerating additives, auxiliary materials with superior adhesion properties.

Type : Powder  
Color : Grey/white  
Density : 1.3 gr/cm<sup>3</sup>

## TECHNICAL PERFORMANCE

Tensile bond strength  
- initial (after 28 days) :  $\geq 1.0$  MPa (N/mm<sup>2</sup>)  
- after heat aging :  $\geq 1.0$  MPa (N/mm<sup>2</sup>)  
- after aging with water :  $\geq 1.0$  MPa (N/mm<sup>2</sup>)  
- after freeze thaw cycle :  $\geq 1.0$  MPa (N/mm<sup>2</sup>)  
- open holding time (after 10 min.) :  $\geq 0.5$  MPa (N/mm<sup>2</sup>)  
Deformable adhesive: Transverse deformation:  $\geq 2.5$  mm and  $< 5$  mm  
Temperature resistance : -30 °C - +70 °C

\*These values are obtained as a result of laboratory tests and are the performance values of the finished applications after 28 days. Values may vary due to differences in the construction site environment.

## REFERENCE STANDARD

TS EN 12004-1 / C2FE, S1 class.

## CONSUMPTION

Average 5-6 kg/m<sup>2</sup> may vary depending on the application surface, tile size and comb size used

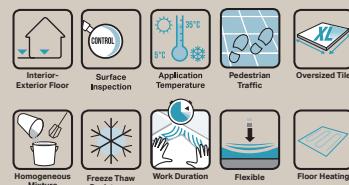
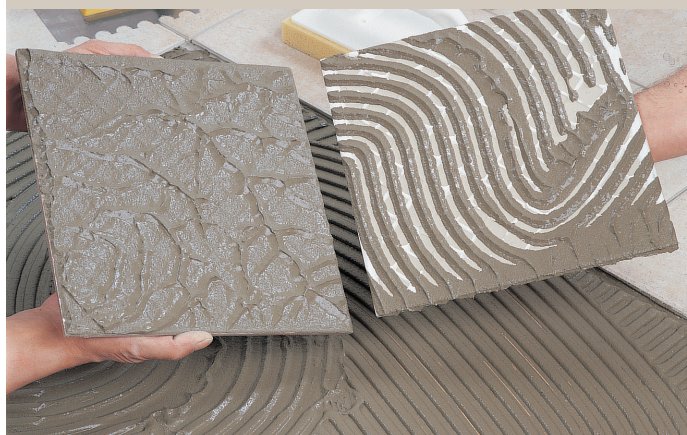
## PACKAGING

In 20 kg kraft bags (60 pieces per pallet / 1200 kg)

## STORAGE AND SHELF LIFE

- For storage, maximum 10 kraft bags should be placed on top of each other.
- Product storage conditions must be complied with and products must not be stored in damp and waterlogged warehouses.
- Shelf life is 1 year provided that the packages are kept in closed and moisture-free environments. Production date and charge number are indicated on the packaging.
- Packages should be tightly closed when not in use.

- 100% coverage of the back of the tile thanks to its fluid consistency
- Consumption savings without the need for a combined bonding method
- Powerful handling of large-sized coating materials
- bonding performance
- High resistance to thermal shocks and surface movements due to its flexibility
- Fast setting



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## APPLICATION FEATURES

Mixing ratio	: 4.0-4.4 liters of water per 20 kg bag
Open time	: 30 minutes
Mixture handling (working) time	: maximum 45 minutes
Application temperature	: +5 °C - +25 °C
Tile correction time	: 30 minutes
Under-tile spreading area	: 100%
Opening time for pedestrian traffic (light pedestrian traffic)	: minimum 12 hours
Jointing time	: Minimum after 6 hours on horizontal surfaces
Complete hardening time (23 °C, 50% relative humidity)	: 28 days

## SURFACE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc., must be smooth and sound, and must not be too dry or sweating.
- On surfaces that have been polished or hardened afterwards (concrete, etc.), the hardness or brightness of the surface should be removed by scraping, etc. before application.
- On surfaces with high absorbency, the surface should be primed with **VitrA Fix FILM** before application.
- Glossy surfaces such as ceramic, exposed concrete etc. should be primed with **VitrA Film Plus** or **VitrA Film Plus Beton** before application.
- Before application on surfaces exposed to direct sunlight and overheated surfaces, the surface temperature should be reduced by moistening the surface with water sprinkling method.
- **VitrA Fix FLOOR PLUS** is not a filling material. Accordingly, the deepest point on the application surface should not exceed 7 mm under a 2 m gauge. If there are larger deviations, necessary repairs should be made with **VitrA Fix RM 20** or **VitrA Fix S 30** before application.
- The surface of the tiles must be cleaned of dust and dirt before application. The tiles must be saturated with water and the surface must be dry.

## APPLICATION

- Slowly add 20 kg of **VitrA Fix FLOOR PLUS** to 4.0-4.4 liters (20-22%) of clean water and mix until the mixture is homogeneous without lumps.
- The mixture should have a consistency that will not flow when taken on a trowel.
- Allow the mixture to rest for 5 minutes before starting the application and apply after mixing again.
- **VitrA Fix FLOOR PLUS**, which is spread well on the surface with the flat side of the toothed steel trowel, should then be combed to the desired tooth thickness.
- When laying large sized tiles, U9, E10 or marble trowel should be used to ensure that the tile floats in the adhesive. After tile laying, especially in exterior floor applications, the comb marks on the tile edges should be pressed on the tile until they are thoroughly crushed.
- When laying transparent or light colored natural stones, a preliminary test should be made against the risk of stains and shadows appearing on their surfaces, and if shadows appear, white colored **VitrA Fix FLOOR PLUS** should be used.
- The joint filling process should be started at least 6 hours after the bonding process.

## PRECAUTIONS

- If hardening or petrification is detected after opening the bags, the product should not be used.
- Do not add more or less water to the mixture than the amount of water indicated on the bag.
- Do not add additional water to the mixture after preparing the mixture.
- Do not apply directly on metal, rubber, PVC, wood, cement based particle board surfaces. Consult technical service for solution.
- Do not apply on unset plastered and concrete surfaces (horizontal) before the curing period is completed.
- In floor applications such as terraces, wet areas, etc., a minimum slope of 3% should be given in the direction of the water drain along the entire terrace and surface.
- The open time of **VitrA Fix FLOOR PLUS** is 30 minutes. However, in unsuitable ambient conditions (high temperature, dry air and strong wind) or on surfaces with high absorbency, the open time is shortened. For this reason, a wetness test should be performed by touching the surface of the adhesive with fingers in case of premature drying and film formation. If the mortar is not smeared on the fingers, the application time of the adhesive has passed. It is not possible to bond by wetting the dried adhesive surface. In this case, the dried or filmed adhesive must be scraped off the surface and a new application must be made. Drying time in low temperature and high humidity conditions can be prolonged.
- Considering the thermal stress and mechanical loads that may occur on the floors; in areas with inter-seasonal temperature changes, necessary expansion joints should be left on the floor, depending on the load and pedestrian traffic on the floor in applications to be made in large areas, depending on the heat-bearing systems and insulation applications, and suitable expansion profiles or **VitrA Fix PU Sealant** polyurethane sealant should be used for these joints.
- Tiled surfaces should be protected from direct sunlight, frost and rain for at least 24 hours.

## SAFETY INSTRUCTIONS

- Avoid contact with skin and eyes as it contains cement. Contact areas should be washed with plenty of water.
- It is recommended to use rubber gloves during product application.
- The product should not be inhaled directly. Dust mask should be used when necessary.
- Please read the Material Safety Data Sheet (MSDS) for more detailed safety information.