



Vitra Fix FLEX ULTRA

Cement based, high performance, non-slip, extended working time, S2 class very elastic adhesive mortar

DESCRIPTION

Cement based porcelain tile adhesive with high adhesion strength and flexibility, used for bonding porcelain tiles, granite, ceramic tiles, natural limestone, travertine, marble, cotto tiles, bricks, thermal insulation plates, glass bricks and glass mosaics to walls and floors.

AREAS OF USE

- For bonding porcelain ceramic, granite ceramic, marble, natural stone, cotto etc. coating materials on exterior facades,
- In areas with high temperature variations such as cold storage, terraces, underfloor heating, etc.,
- In floor applications exposed to heavy pedestrian traffic such as hospitals, shopping centers, hotels, etc.,
- In wet areas such as pools, water tanks, etc.
- Ideal for use in ceramic, granite ceramic applications on difficult surfaces such as paint, plaster, ceramic, granite ceramic etc.

FEATURES

Material structure :High quality cement, elasticizing additives, superior adhesion contains auxiliary materials.

Type : Powder
Color : Grey / white
Density : $1.3 \pm 0.05 \text{ gr/cm}^3$

TECHNICAL PERFORMANCE*

Tensile bond strength	
- initial (after 28 days)	$\geq 1.0 \text{ MPa (N/mm}^2\text{)}$
- after heat aging	$\geq 1.0 \text{ MPa (N/mm}^2\text{)}$
- after aging with water	$\geq 1.0 \text{ MPa (N/mm}^2\text{)}$
- after freeze thaw cycle	$\geq 1.0 \text{ MPa (N/mm}^2\text{)}$
- open holding time (after 30 min.)	$\geq 0.5 \text{ MPa (N/mm}^2\text{)}$
Shear	$\leq 0.5 \text{ mm}$
Flexibility	$5 \text{ mm} \leq S2$
Acid and alkali resistance	: good
Temperature resistance	: $-40^\circ\text{C} - +80^\circ\text{C}$
Reaction to fire class	: A1 (TS EN 13501 - 1)

*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 / C2TE, S2 class.
- CE

PACKAGING

In 25 kg kraft bags (48 pieces per pallet / 1200 kg)

CONSUMPTION

Average 5-8 (kg/m^2) may vary depending on the application surface, tile size and comb size used.

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.

- Strong bonding performance of large-sized coating materials
- Possibility to lay ceramic tiles from top to bottom without slipping
- Easy troweling
- Excellent resistance to thermal shocks and surface movements with high flexibility
- Strong adhesion to challenging surfaces
- Long working time



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APPLICATION FEATURES

Mixing ratio	: 5,5-6,5 liters of water for 25 kg of powder product
Working and tile smoothing time	: 30 minutes
Time to use the mixture	: 3 hours (pot life)
Application temperature	: +5 °C - +35 °C
Opening time for pedestrian traffic	: minimum 24 hours after
Jointing time	: minimum after 24 hours

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 FLEX ULTRA** 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, the necessary repairs should be made using **VitrA Fix RM 20** or **VitrA Fix S 30** before tile laying.

APPLICATION

- Slowly add 25 kg **VitrA Fix POOL** to 5,5-6,5 liters (22-26%) 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 FLEX ULTRA**, which is spread well on the surface with the flat side of the toothed steel trowel, should then be combed at the desired tooth thickness.
- For bonding of coating materials larger than 40x40 cm and for exterior applications, a combined bonding method (adhesive application both on the surface and on the back of the ceramic) must be used. Consumption may increase by approximately 30-50%.
- When laying nail-backed coating materials, adhesive should be applied until the nail depth is filled.
- The tile should be lightly tapped with a rubber mallet to ensure a firm adhesion and to ensure that the adhesive is fully spread and adhered to the back of the tile.
- Joint filling should be started at least 24 hours after the bonding process.

*Double-sided bonding method is compulsory.

APPLICATION SURFACES

Suitable for use on cement based plaster and screed surfaces, exposed concrete surfaces and concrete slabs.

PRECAUTIONS

- If hardening or petrification is detected after opening the packages, 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 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 and vertical) 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 FLEX ULTRA** is 30 minutes. However, under unfavorable 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. Under low temperature and high humidity conditions, the drying time may be prolonged.
- Considering the thermal stress and mechanical loads that may occur on the floors; in areas with inter-seasonal temperature changes, depending on the heat-bearing systems and insulation applications, and in applications to be made in large areas, depending on the load and pedestrian traffic on the floor, necessary expansion joints should be left on the floor, 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.