



# VitrA Fix POOL

Cement based, high performance, specially developed for pools, S1 class elastic adhesive mortar

## DESCRIPTION

It is a cement-based porcelain tile adhesive with high water repellent properties, high adhesion strength and flexibility, which can be safely used for bonding glass mosaic, porcelain tile, marble, natural granite, natural stone, travertine, pool tile and non-slip parts of all types and sizes.

## AREAS OF USE

- For the application of porcelain tile, granite, natural stone, glass mosaic, ceramic tile, marble etc. coating materials on cement based surfaces indoors and outdoors,
- In wet areas such as pools, water tanks, baths, car wash stations, etc,
- It is used for ceramic applications on difficult surfaces such as paint, plaster, ceramic etc.

## FEATURES

Nature : PHigh quality cement, additives that increase water repellency and elasticity, auxiliary materials that give superior adhesion properties.  
 Colour : Grey / White  
 Density :  $1.3 \pm 0.05 \text{ g/cm}^3$

## 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 :  $2.5 \text{ mm} \leq S1 \leq 5 \text{ mm}$   
 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 S1 class.

## CONSUMPTION

Average  $3\text{-}6 \text{ kg/m}^2$  may vary depending on the application surface, tile size and comb size used.

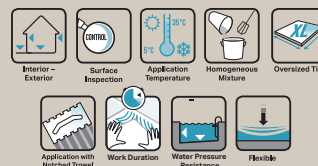
## PACKAGING

In 25 kg kraft bags (48 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.

- Excellent adhesion performance in pools and wet areas
- Possibility to lay ceramic tiles from top to bottom without slipping
- Long working time
- High resistance to thermal shocks and surface movements due to its flexibility
- Improved water repellency



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## APPLICATION FEATURES

Mixing ratio	: 5.5-6.5 liters of water per 25 kg bag
Working and tile correction time	: 30 minutes
Time to use the mixture (Pot life)	: 3 hours
Application temperature	: +5 °C - +35 °C
Opening time for pedestrian traffic (light pedestrian traffic)	: minimum 24 hours
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 gloss of the surface must be removed by scraping, etc. before application.
- Glossy surfaces such as ceramic, exposed concrete, etc. should be primed with VitrA Film Plus or VitrA Film Plus Beton before application.
- On non-absorbent surfaces, the surface should be primed with **VitrA Fix FILM PLUS** 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 POOL** 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.
- 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 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 for 1-2 minutes.
- **VitrA Fix POOL**, 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 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 transparent or light colored natural stones, a preliminary test should be carried out in case of the risk of stains and shadows appearing on the surface and in case of shadows, white colored **VitrA Fix POOL** should be used.
- It is necessary to apply adhesive to coating materials with nail backing until the nail depth is filled.
- In order for the adhesion to be strong and for the adhesive to fully spread and adhere to the back of the tile, the tile should be lightly rammed with a rubber mallet.
- Joint filling should be started at least 24 hours after the bonding process.

## 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 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 apply directly on metal, rubber, PVC, wood, cement based particle board surfaces. Consult technical service for solution.
- Do not apply on unset plastered or 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 POOL** is 30 minutes. However, in unsuitable ambient conditions (high temperature) 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 early 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, 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.