WATERPROOFING MATERIALS

VitrA Fix PROOF UV

Cement based, 2-component, UV resistant, elastic, waterproofing material

DESCRIPTION

2-component (liquid+powder), cement based, elastic waterproofing material with increased UV resistance. It is applied to the surface for waterproofing against positive pressure under ceramic tiles before tile coating materials in volumes exposed to water and humidity.

AREAS OF USE

- Terrace roofs to be left open,
- In wet areas such as pool, water tank, balcony, etc,
- For waterproofing applications to be made on cement based surfaces such as concrete, plaster, screed etc. indoors and outdoors.

FEATURES

Material structure
-powder component (A) : High quality cement, high elasticity and water repellency additives, auxiliary additives that provide superior adhesion materials.
-liquid component (B) : Synthetic resin
Type : Powder (component A) + Liquid (component B)
Color : Grey (powder component A) / white (liquid component B)
Density : 1.80 ± 0.1 g/cm³ (A+B)

TECHNICAL PERFORMANCE*

Temperature resistance	: -30 °C - +70 °C
Initial tensile bond strength	: ≥ 0.5 N/mm²
Tensile strength after contact with water	: ≥ 0.5 N/mm²
Tensile strength after heat aging	: ≥ 0.5 N/mm²
Tensile strength after freeze-thaw	: ≥ 0.5 N/mm²
Water impermeability (positive side for 3 mm thickness)	: ≥1.0 bar
Crack bridging	: ≥ 1.5 mm

*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 14891
- TS EN 1062-11

CONSUMPTION

- Approximate consumption 1.4-1.6 kg/m² for 1 mm thickness

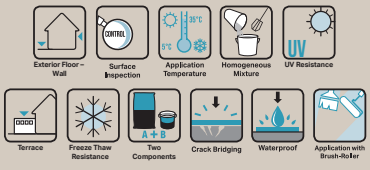
PACKAGING

- Set of 25 kg kraft bags (powder component A) + 8 kg plastic drums (liquid component B).

STORAGE AND SHELF LIFE

- Care should be taken to place maximum 10 kraft bags on top of each other for storage.
- Product storage conditions must be complied with and products must not be stored in damp and waterlogged warehouses. Products should be stored at temperatures between +5 °C - +30 °C.
- 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.

- Resistant to UV rays and light foot traffic
- Elastic
- Suitable for horizontal and vertical application
- Crack bridging capability, fiber reinforced
- Ease of implementation
- Freeze-thaw resistance
- Non-corrosive and non-toxic.



VitrA Fix PROOF UV

APPLICATION FEATURES

Mixing ratio	: 25 kg (powder component A) + 8 kg (liquid component B)
Pot life	: Max. 5 hours
Application temperature	: +5 °C - +35 °C
Application thickness	: 2-3 mm
Waiting time between floors	: minimum 6 hours
For ceramic application time to wait	: min 2 days.
Time to gain mechanical strength	: 2 days
Waterproofing time	: 7 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.
- Before starting the waterproofing process, **VitrA Fix FILM** primer material should be applied to the surface in order to balance the absorbency of the surface and increase the adhesion adherence. Wait minimum 3 hours for the primer to dry.
- Before application on non-absorbent surfaces, the surface should be primed with **VitrA Fix FILM PLUS** or **VitrA Fix LATEX** (see Special Cases section).
- On surfaces exposed to direct sunlight and overheated surfaces, the surface temperature should be reduced by moistening the surface with water sprinkling method before application.
- **VitrA Fix PROOF UV** is not a filling material. Accordingly, the application surfaces must be smooth. If there are deviations of 2 mm from the surface smoothness under a 2 m gauge, the necessary repairs should be made using **VitrA Fix RM 20** vertically or **VitrA Fix S 30** horizontally before application.

APPLICATION SURFACES

- It can be applied on cement based surfaces such as concrete, plaster and mortar.

APPLICATION

- Slowly add 25 kg of the powder component to 8 kg of the liquid component.
- Mix at low speed (400 rpm) with a mixer until the mixture is homogeneous and free of lumps.
- Allow the mixture to rest for 3 minutes before application and apply after mixing again.
- The prepared mixture should be applied to the surface with a stiff brush in minimum 2 coats. When applying the first coat from right to left or from top to bottom, our chamfer band products should be used at wall-floor joints.
- 6 hours after the first coat application, the 2nd coat should be applied in the opposite direction of the first coat application. The main purpose here is to cover the surface with all the material.
- The next stage after waterproofing should be started at least 2 days later.
- The times given in the application information and steps may be shorter or longer under different ambient conditions (low/high temperature, humidity, wind, etc.).

PRECAUTIONS

- The mixing ratios of components A and B are indicated on the packaging; they should not be mixed in any other ratio.
- If hardening or petrification is detected after opening the packages, the product should not be used.
- Water should never be added to the mixture.
- Do not apply directly on metal, rubber, PVC, mineflo, wood, cement based particle board, gas concrete, underfloor heating, painted and tiled surfaces. Consult technical service for solution.
- Do not apply on unset plastered and concrete surfaces (horizontal and vertical) before the minimum 6-week curing period is completed.
- In floor applications such as terraces, wet areas, etc., a minimum slope of 3% should be given along the surface in the direction of the water drain in order to prevent water accumulation on the surface.
- The working time of **VitrA Fix PROOF UV** is shortened under unsuitable environmental conditions (high temperature, dry air and strong wind). In low temperature and high humidity ambient conditions, the duration can be prolonged.
- **VitrA Fix PROOF UV** is a waterproofing material developed for undercoating applications. It should not be left open, it must be covered with a suitable coating material.
- Protect the treated surfaces from direct sunlight, frost and rain for at least 24 hours.
- 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, in applications to be made in large areas, depending on the load and pedestrian traffic on the ground, necessary expansion joints should be left on the ground, suitable expansion profiles or joint filling mastics (PU, MS Polymer, silicone etc. based) should be used for these joints.
- The surface must be fully bundled during application. If the bundling is not done completely and there are interruptions and joints in the insulation application, these details may cause water leakage.
- In order to increase the resistance on surfaces that will be exposed to water pressure, waterproofing application can be done together with reinforcement reinforcement (alkali resistant reinforcement mesh etc.). After the first coat is applied, the reinforcement is embedded into the first coat while it is still wet. After the first coat dries, the second coat is applied.
- The surface should not be exposed to direct sunlight after application.
- In the insulation to be made under the coating, attention should be paid to waterproofing applications of details such as water drains.

SAFETY INSTRUCTIONS

- Avoid contact with skin and eyes as it contains cement. Wash contact areas 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.

Note: Technical values and application instructions are the results of our experience and tests carried out in accordance with international standards, valid at ambient conditions of 23 °C and 50% relative humidity.