

VitrA Fix 1-6

Cement based, standard performance
joint filler



DESCRIPTION

It is a cement-based joint filling material used in 1-6 mm joint widths of coating materials such as ceramic tile, natural stone, marble and travertine, which does not collapse and crack. It does not form cracks with its low shrinkage value. Provides easy and fast application.

AREAS OF USE

For interior (1-6 mm) joint filling applications of ceramic tile, marble, natural stone, glass mosaic etc. coating materials

FEATURES

Material structure : High quality cement, fine filler and water repellent agents.

Type : Powder
Color : Color chart colors
Density : $1.40 \pm 0.05 \text{ gr/cm}^3$

TECHNICAL PERFORMANCE*

Water absorption (after 30 minutes) : $\leq 5 \text{ gr}$
Water absorption (after 240 minutes) : $\leq 10 \text{ gr}$
Moisture resistance : good
Alkali resistance : good
Acid resistance : good (for $\text{Ph} > 3$ acids)
Temperature resistance : $-30^\circ\text{C} - +70^\circ\text{C}$
Bending strength : $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$
Flexural strength (freeze-thaw) : $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$
Compression strength : $\geq 15 \text{ MPa (N/mm}^2\text{)}$
Compression strength (freeze-thaw) : $\geq 15 \text{ MPa (N/mm}^2\text{)}$
Abrasion resistance : $\leq 2000 \text{ mm}^3$
Shrinkage value : $\leq 3 \text{ mm/m}$

*These values are obtained as a result of laboratory tests and are the performance values of the finished applications one day later. Values may vary due to differences in the construction site environment.

REFERENCE STANDARD

- TS EN 13888 / CGI class.
- G

CONSUMPTION

Approximate consumption (kg/m^2) may vary depending on the application surface, tile size and comb size used.

Tile Dimensions (cm)	Tile Thickness (mm)	According to Joint Width Approximate Consumption (gr/m^2)		
		2 mm	3 mm	5 mm
10X10	6	400	600	950
20X20	8	275	400	650
30X30	8	175	250	400
30X60	8	140	200	325
45X45	8	125	180	300
60X60	9	100	150	250

*Sample consumption.

- Full color representation with a smooth surface
- Easy application and cleaning
- Abrasion resistant
- No cracking, collapse



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PACKAGING

In 20 kg kraft bags

STORAGE AND SHELF LIFE

- For storage, care should be taken to place a maximum of 10 kraft bags on top of each other.
- Product storage conditions should be followed and products should not be stored in damp and waterlogged warehouses.
- Shelf life is 1 year for kraft bags and 2 years for polyethylene bags under appropriate storage conditions. Packages should be tightly closed when not in use.

APPLICATION FEATURES

Mixing ratio	: 5.8-6.6 liters of water for 20 kg of powder product
Time to use the mixture	: 1 hour (pot life)
Application temperature :	+5 °C - +35 °C
Recommended joint width	: 1-6 mm
Time to use	: 24-48 hours

SURFACE PREPARATION

- Joint gaps must be cleaned of adhesion inhibiting residues and must be completely empty and smooth.
- Joint filling should not be applied before the recommended waiting period after adhesive application.
- For highly absorbent ceramics, in high temperature or extremely windy environments, the joint gaps should be moistened with clean water before application.

APPLICATION

- Slowly add 20 kg of **VitrA Fix 1-6 mm** to 5.8-6.6 liters (29-33%) of clean water and mix until the mixture is homogeneous and free of lumps.
- It is recommended to use a low speed mixer for a lump-free and homogeneous mixture.
- The mixture should have a consistency that will not flow when troweled.
- Allow the mixture to rest for 5 minutes before application and mix again for 1-2 minutes and then apply.
- Absolutely no additional water should be added to the mixture to ensure a flowable consistency.
- The prepared joint filling material should be filled into the joint gaps with a rubber spatula or a hard rubber-based joint trowel.
- The mortar spread on the surface should be filled diagonally (at a 45 degree angle) into the joint gaps. Remove excess grout from the surface. If the filling process is performed parallel to the joint gaps, separation of the joint filling material from the surface or deterioration and roughening of the surface may be observed.
- Whichever direction the joint filling process is started, the application should be continued in that direction until the filling process is completed. During the joint filling process with a trowel, work in one direction.
- The time to clean the joint sealant from the surface is the moment when the joint sealant starts to dry and its surface starts to become dull. This time may vary depending on the ambient conditions, it is normally 10-15 minutes under normal conditions, and it may shorten in hot environments and prolong at low temperatures. To find the appropriate time, touch the joint material residue on the tile with a finger, if the material is very lightly dusted on the finger, it means that it has dried sufficiently for cleaning.
- The residues on the surface are cleaned with diagonal (45 degree angle) movements using a damp sponge. Clean water should be used to moisten the sponge, while the cleaning water for the soiled sponge should be kept separate.
- If there are still joint stains on the surface after the last cleaning, mortar residues on the coating surface can be cleaned with **VitrA Fix NET** at least 10 days after the application. **VitrA Fix NET** can only be used on acid-resistant tiles (for details, please see the technical product page about **VitrA Fix NET**).

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. Excess water to be added into the mixture manifests itself in the form of low strength, chalking, point holes in the final product.
- In pool applications, a minimum of 7 days should be waited for the joint material to gain sufficient strength and the pool should be taken into use after this period.
- The waiting time of **VitrA Fix 1-6 mm** in the container is 1 hour, and the waiting time for the first cleaning stage after application is 10-15 minutes. However, under unfavorable ambient conditions (high temperature, dry air and strong wind) or on highly absorbent surfaces, these times are shortened and may be reduced to a few minutes depending on the severity of the conditions. For this reason, a wetness test should be performed by touching the joint surface with a finger in case of premature drying and film formation. When the mortar does not get on the fingers, proceed to the cleaning stage. Under low temperature and high humidity conditions, drying time may be prolonged.
- Joint filler should be applied at least 3 mm thick. In thinner applications, the joint filling material will be easily scraped off as its strength will be weak.
- Considering the thermal stress and mechanical loads that may occur on the floors; in areas where inter-seasonal temperature changes occur, depending on the heat-bearing systems and insulation applications, and in applications to be carried out 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. Cement based products should never be used as expansion joints.
- The grouted surfaces should be protected from direct sunlight, frost and rain for at least 24 hours.
- Sawdust should not be used for surface cleaning.
- The use of general cleaning materials such as bleach, lime remover, etc. may cause damage to colored joint fillers. Joint fillers should be cleaned with **VitrA Fix JOINT CLEANER** product.

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.

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.