

VitrA Fix FLEX 0-5

(Formerly VitrA Fix FLEX 0-3)



Cement-based, high-performance, silicone-added, thin-filled, elastic, hygienic joint filler

DESCRIPTION

It is a cement-based, silicone-added joint filling material with increased water repellency, high abrasion resistance, high abrasion resistance and high water repellency, used in 5 mm joint widths of coating materials such as ceramic tiles, porcelain tiles, glass mosaic, natural stone, marble and travertine. Does not collapse, does not form cracks with low shrinkage value. Gives full color, easy to clean. Provides easy and fast application, eliminates scratching problems during application and cleaning thanks to its thin filling structure. High resistance to UV and outdoor weather conditions.

AREAS OF USE

- Underfloor heating floors, terraces, etc. in areas with high temperature changes,
- In floor applications exposed to heavy pedestrian traffic such as shopping centers, schools, hotels, etc,
- In wet areas such as pools, baths, bathrooms, etc,
- It is ideal for joint filling applications of porcelain ceramic, granite ceramic, natural stone, ceramic, cotto, marble, glass mosaic etc. coating materials up to max. 5 mm indoors and outdoors.

FEATURES

Material structure : High quality cement, elasticizing additives, silicone, 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)	: $\leq 2 \text{ gr}$
Water absorption (after 240 minutes)	: $\leq 5 \text{ gr}$
Moisture resistance	: excellent
Alkali resistance	: excellent
Acid resistance	: good (for Ph>3 acids)
Temperature resistance	: $-30 \text{ }^\circ\text{C} - +70 \text{ }^\circ\text{C}$
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	: $\leq 1000 \text{ mm}^3$
Shrinkage value	: $\leq 2 \text{ mm/m}$

*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.

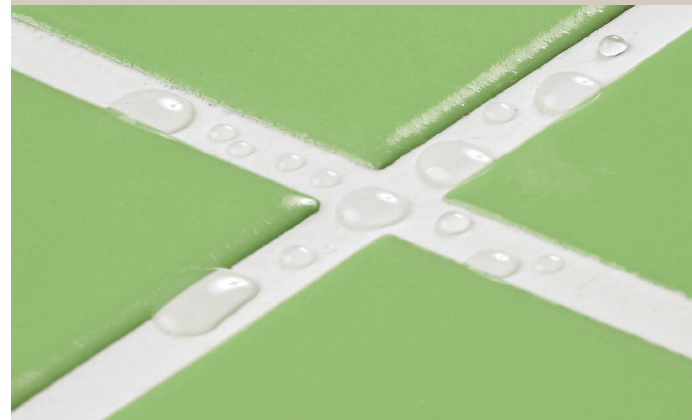
REFERENCE STANDARD

- TS EN 13888 / CG2, WA class
- G
- Public Works Pos No: 10.300.2232

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.

- Full color representation with a smooth surface
- Difficult to dirty, easy to clean
- Easy to apply, no cracking and collapse
- Proven bacteria resistant, mold and algae free
- Water repellent and elastic
- High resistance to thermal shock and abrasion



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CONSUMPTION

Approximate consumption (kg/m²) 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
60x120	9	80	120	190

PACKAGING

- 20 kg kraft bag
- 5 kg polyethylene packaging

APPLICATION FEATURES

Time to use the mixture (pot life)	: 1 hour
Application temperature	: +5 °C - +35 °C
Recommended joint width	: max. 5 mm
Time to use	: 24 hours
Mixing ratio	: For 20 kg of powder product 6.2-7.0 liters of water

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

- 20 kg of **VitrA Fix FLEX 0-5** should be added slowly to 6.2-7.0 liters (31-35%) It clean water and mixed until the mixture is lump-free and homogeneous.
- 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 thoroughly with a rubber spatula or hard rubber-based joint trowel.
- The mortar spread on the surface is filled into the joint gaps diagonally (at an angle of 45 degrees) so that it is diagonal to the joint gaps. Remove excess joint filler 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 for cleaning the joint filler material from the surface is the moment when the joint filler material 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 FLEX 0-5** 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 surfaces with high absorbency, these times are shortened, depending on the severity of the conditions, this time may be reduced to a few minutes. 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 joint treated surfaces should be protected from direct sunlight, frost and rain for at least 24 hours.
- 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.
- Sapphire Blue, Lava Red, Emerald Green, Amber Yellow, Marine Blue and Prestige Red colors are not recommended to be used as joint filler colors in continuously filled pool applications, despite the fact that they contain intense color pigments in their content and are more likely to give color more easily with pool chemicals.

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.