

VitrA Fix FLEX 2-12

(Formerly VitrA Fix FLEX 3-10)



Cement based, high performance, silicone added, 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, cement-based, silicone-added joint filling material used in 2-12 mm joint widths of coating materials such as ceramic tile, porcelain tile, glass mosaic, natural stone, marble, travertine. Does not form cracks with low shrinkage value. Provides easy and fast application.

AREAS OF USE

- For interior and exterior (2-12 mm) joint filling applications of porcelain tile, granite, natural stone, ceramic tile, cotto, marble etc. coating materials
- Underfloor heating floors, terraces, etc. in areas with high temperature changes
- In floor applications exposed to heavy pedestrian traffic such as shopping centers, schools, etc.
- For applications in wet areas such as pools etc. with its water repellent feature

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 : $-30^\circ\text{C} - +70^\circ\text{C}$
- 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 : $\leq 1000 \text{ mm}^3$
- 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

- Full color rendering with 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	8 mm
10x10	6	400	600	950	1525
20x20	8	275	400	650	1050
30x30	8	175	250	400	650
30x60	8	140	200	325	525
45x45	8	125	180	300	480
60x60	9	100	150	250	400
60x120	9	80	120	190	310

PACKAGING

- 10 and 20 kg kraft bags
- 1 and 5 kg polyethylene packaging

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	: 2-12 mm
Time to use	: 24 hours

APPLICATION

- Slowly add 20 kg of VitrA Fix FLEX 2-12 to 5,8-6,6 liters (29-33%) 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 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 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 finished. During the joint filling process with a trowel, work in one direction.
- The time to clean 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.

■ Remove surface residues with a damp sponge using diagonal (45 degree angle) movements. Clean water should be used to moisten the sponge, while 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).

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.

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 2-12 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 filler material will be easily scraped off as its strength will be weak.
- The joint filler 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 sealants. Joint fillers should be cleaned with VitrA Fix JOINT CLEANER product.
- Sapphire Blue, Lava Red, Emerald Green and Amber Yellow 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.