

# VitrA Fix POOL G 2-10



Cement based, high performance, chemical resistant, elastic, hygienic joint filler

## DESCRIPTION

It is a fast drying, cement based joint filling material with increased water repellency, resistant to solvents, weak acids and bases, resistant to solvents, weak acids and bases, used in 2-10 mm joint widths of coating materials such as ceramic tile, porcelain tile, glass mosaic, natural stone, marble, travertine. Ready to use 3 hours after application. Does not form cracks with low shrinkage value. Provides easy and fast application.

## AREAS OF USE

- In wet areas such as pools, water tanks, baths, etc. with its high water repellent feature,
- In industrial areas requiring chemical resistance against solvents, weak acids and bases,
- In salt and sulfate water tanks,
- Underfloor heating on demanding floors such as terraces, terraces, shopping malls, hotels, etc,
- Ideal for joint filling applications between 2-10 mm of porcelain ceramic, granite ceramic, natural stone, ceramic, cotto, marble, glass mosaic etc. coating materials.

## FEATURES

Material structure : High quality cement, elasticizing additives, 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	: $\geq 2.5 \text{ MPa (N/mm}^2\text{)}$
Bending 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

- Special formula for pools and areas requiring chemical resistance,
- Improved Chemical Resistance
- Proven Bacteria Resistance
- High abrasion and crack resistance



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## CONSUMPTION

Approximate consumption (kg/m<sup>2</sup>) 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 <sup>2</sup> )			
		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

In 15 kg plastic buckets (44 pieces per pallet / 660 kg)

## STORAGE AND SHELF LIFE

- 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.

## APPLICATION FEATURES

Mixing ratio	: 3.3-3.6 liters of water per 15 kg package
Mixture use time	: Maximum 45 minutes (pot life)
Application temperature	: +5 °C - +35 °C
Recommended joint width :	2-10 mm
Jointing time	: also specified in the type of adhesive used.
Time to use	: 3 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 15 kg of VitrA Fix POOL G 2-10 to 3.3-3.6 liters (22-24%) of clean water and mix 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 taken on the trowel.
- Allow the mixture to rest for 5 minutes before application and apply after mixing again.
- 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 filling material from the surface is the moment when the joint filling material starts to dry and its surface starts to become dull. This time may vary depending on the ambient conditions, it is 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

- Since it has a fast-setting structure, attention should be paid to sudden set during application.
- Since it will set quickly, care should be taken when applying under the sun and at high temperatures.
- If hardening or petrification is detected after the bags are opened, 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 added to the mixture will show itself as low strength, chalking and point holes in the final product.
- After the mortar is prepared with the appropriate amount of water, excess water or powder should not be added to the mixture.
- 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 POOL G 2-10 in the container is 45 minutes 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, the cleaning stage should be started. Under low temperature and high humidity conditions, the drying time may be longer.
- Joint filler should be applied at least 3 mm thick. In thinner applications, the joint filler material will be easily scraped as its strength will be weak.
- The joint filler 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.

**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.