



## FillGood EVO

WATER-BASED POLYURETHANE SINGLE-COMPONENT GROUT, READY FOR USE, STAIN-PROOF, FOR COMPACT AND FLEXIBLE JOINTS WITH UNIFORM AND LONG-LASTING COLOURS. EXEMPT FROM HAZARD CLASSIFICATION.



### DESCRIPTION

**FillGood EVO** is the innovative grout based on polyurethane resins in aqueous dispersion for water-repellent grouting of joints between ceramic tiles and glass mosaics with joints between 1 to 6 mm in width.

### ADVANTAGES

#### Product ready-for-use

No preparation is needed and it prevents the release of dust into the environment, as is the case with cementitious products.

#### Reusable

Once the grouting has been completed, any leftover material, if closed in the original container and preserved at temperatures between +5°C and +35°C, can be reused after several months, avoiding waste.

#### Finish

The extreme fineness of the sintered quartz micro granules in the product makes it possible to obtain highly smooth and compact finishes.

#### Exempt from labelling

Since FillGood EVO does not contain solvents, irritants or corrosive substances, it does not need to be labelled like normal cementitious or epoxy products. The user, therefore, has access to a very safe product for grouting.

#### Easy to clean

The colours of the product are added by the sintered quartz micro granules which are coloured on the surface, thus avoiding the release of pigments onto the surface of the tiles or mosaics, making cleaning easier and faster. The product is particularly suitable for grouting joints between "wood-effect" ceramic tiles with rough surfaces.

#### Stable, uniform colours

The product does not contain cement, thus avoiding the formation of efflorescence which is typical of cementitious products. The FillGood EVO binder consists of polyurethane resins in aqueous dispersion which guarantee high stability against light, preventing yellowing or colour variations caused by exposure to UV rays or artificial light sources.

#### Water-repellent

Special water-repellent additives incorporated in the product drastically reduce the surface absorption of grouts making them water-repellent with "drip effect".

#### Stain-proof

Given its low surface absorption, FillGood EVO is very resistant to

oil, wine and vinegar stains etc. See the table of resistance to stains. It also has a good resistance to various aggressive chemicals. See the chemical resistance table.

#### Elastic

The product does not contain cement and thus, is very elastic once hardened, making it suitable for tiling applications subject to vibrations and/or deformation.

### FIELDS OF APPLICATION

FillGood EVO can be used in the residential and public construction sector to grout joints with widths from 1 to 6 mm, for any type of ceramic tile, including glass mosaics, on indoor walls and floors, and outdoor walls. As a single-component product whose hardening depends on the evaporation of the water contained in the applied compound, it is perfect for grouting joints between large format ceramic tiles where the tiler only applies the material on the outer edge of the tiles. Unlike two-component reactive epoxy products, FillGood EVO gives users more time to complete the grouting, avoiding the waste of material.

The list below outlines examples of suitable application areas.

- Grouting of joints on floors and wall tiling, including heated elements in the bathroom, kitchen, living rooms, bedrooms and communal area, such as landings and stairs.
- Grouting of joints between ceramic tiles or mosaics applied on outer walls.
- Grouting on such elastic or vibrating substrates, such as sheet metal, wood panelling or consisting of lightweight panels.
- Grouting of joints on floors, including underfloor heating, in public/commercial buildings, such as offices, shops, places of worship, meeting rooms, cafés and restaurants, schools, hotels and exhibition halls.

#### Joint grouting

FillGood EVO is a ready-to-use product and does not require any preparation. However, once the container has been opened, we recommend briefly mixing the product by hand with a trowel or steel spatula.

## Finishes

If using the Spotlight or Gold finishes, pour the product on the mixture and mix slowly with the spatula. Do not use the Galaxy additive.

## Application

The product can be applied at temperatures between +10°C and +30°C. Avoid strong draughts which would dry the product too quickly on the surface of tiles or mosaics. Do not apply if the temperature is forecast to drop below +10°C in the following 24 hours. Protect all surfaces from water infiltration for 7 days.

FillGood EVO is a product in aqueous dispersion and hardening occurs by water evaporation. As a result, the cross-linking reaction and hardening process is influenced by temperature, moisture, the absorption of the tiles and their thickness. Low temperatures or high environmental humidity lengthen hardening times.

Apply the mixture in the joints with a green rubber float (art. 946GR) by spreading it diagonally against the direction of the joints, without leaving any gaps or dips and removing excess material from the surface of the tiles or mosaics. Partial filling of the joints may compromise the structural integrity of the product. Therefore, make sure you work the product into the joints with the rubber float until they are completely full. It is recommended to apply the product covering areas not exceeding 3-4 m<sup>2</sup> and that can be cleaned within 15 minutes.

With temperatures near +30°C, it is recommended to apply the product covering an area not exceeding 1 m<sup>2</sup> and clean immediately. To facilitate application (especially in hot climates), you can lightly moisten the surface of the tiles with the sponge supplied and duly squeezed out before applying the product in order to stop the water from collecting on the surface of the tiles or in the joints that are still unfilled. This allows the product to be applied more effectively, slowing the formation of film on the surface of the tiles.

## Cleaning and finishing

Cleaning and finishing of joints is done with a well-squeezed sponge for use specifically with FillGood EVO (art. 125G0001) or a Sweepex sponge (art. 128G0001), by performing circular movements and taking care not to empty the joints and without leaving marks on the surface. Do not use cellulose sponges. The least amount of water possible must be used to avoid damaging the product that is still fresh within the joints. Do not allow water to collect on the surface of fresh grouting and prevent the water used for cleaning from seeping into the unfilled joints. Change the cleaning water frequently (about every 10 m<sup>2</sup>). Avoid any further cleaning once drying has started, as rubbing with a sponge during the cross-linking reaction leads to the loss of surface resistance. Should transparent marks remain on the surface of the tiles or mosaics due to film formation of the resin, it will be possible to intervene, after no less than 24 hours from the grouting, with the neutral FillCleaner EVO. Spread the undiluted product on the surface and after a few minutes, rub with the white felt pad (art. 109GBNC), rinse with a moist sponge and dry with a clean cloth. It is recommended to apply FillCleaner EVO on surfaces that are not too large (about 1-2 m<sup>2</sup>) so that it does not remain in contact with the grouting for more than 5 minutes. After cleaning, the product will be set to light foot traffic after 24 hours.

## Maintenance of ceramic surfaces grouted with FillGood EVO

Routine cleaning of ceramic or mosaic surfaces grouted with FillGood EVO can be carried out with cleaning products readily available on the market and by observing the instructions for use and the dilutions recommended by the manufacturers and indicated on the packaging. Products containing ethyl alcohol may slightly

weaken the surface of the grouting which will regain its original strength after a few hours. If in doubt, perform a preliminary test on a small area. For routine surface cleaning, Litokol suggests using the neutral cleaner Litoshine EVO which, if used in the right concentration, does not require rinsing.

## WARNINGS

- The product is ready to use. Do not add water as diluting the resin will weaken the grout when it has hardened.
  - Do not add cement, alcohol or foreign substances.
  - Before application, make sure that the adhesive used to lay the tiles or mosaics has dried completely.
  - Briefly mix the preparation by hand with a trowel or spatula before use. Do not mix with a drill.
  - Apply the product at temperatures between +10°C and +30°C.
  - Do not use in the event of high environmental humidity.
  - Do not use for outdoor flooring, tanks, swimming pools, steam rooms, saunas and showers in sports and public facilities.
  - Do not use for grouting floor tiles or mosaics in showers, even in residential settings.
  - Do not use in industrial environments or areas with high footfall.
  - Do not use on surfaces subject to capillary moisture ascent.
  - For grouting of natural stone or marble mosaics, a preliminary test must be carried out to check for any surface absorption of the polyurethane resin. In this case, a darker stain may form on the surface of the material which cannot be removed.
  - Given the many types of ceramic tiles and mosaics available on the market today, it is recommended, in case of doubt, to perform a preliminary grouting test in order to determine any incompatibility or cleaning difficulty. In any case, do not use the product if the surface of the ceramic tiles or mosaics are porous.
  - To clean, only use the synthetic foam sponge specifically for FillGood EVO (art. 125G0001) or a Sweepex sponge (art. 128G0001). Using other sponges or felt pads may compromise the surface compactness of the grout.
  - When cleaning, always thoroughly squeeze the sponge and use the least amount of water possible, avoiding water stagnation on the surface of the grout that is still fresh.
  - Do not cover the freshly grouted surface with sheets or other material to avoid the formation of condensation which could lead to problems when the resin is drying. Wait at least 48-72 hours, depending on the temperature, before protecting the surface.
  - If any material is left over, it is recommended to reseal the package, making sure that the separation plate is placed inside it. This procedure will ensure the product is preserved correctly.
- Do not use the product for applications not stated in this technical sheet.

**PACKAGING**

5 kg plastic bucket = Standard pallet 500 kg

**SAFETY INFORMATION**

Consult the product safety data sheet, available on request.

**PRODUCT FOR PROFESSIONAL USE****ITEM SPECIFICATION**

The grouting between ceramic tiles and mosaics with joint widths between 1 and 6 mm must be done with a polyurethane grout in aqueous dispersion, ready for use, such as FillGood EVO produced by Litokol.

**IDENTIFICATION DATA**

Appearance	Thick coloured paste
Specific gravity of mix	1.55 kg/l
pH	8
Customs code	35069190
Shelf life	24 months in the original unopened packaging at temperatures between +5°C and +35°C. Avoid freezing temperatures.

**COLOURS**

100 Bianco Assoluto	110 Grigio Perla	125 Grigio Cemento
140 Nero Grafite	205 Travertino	210 Greige
225 Tabacco	230 Cacao	

**APPLICATION DATA**

<b>Waiting time before grouting</b>	
<b>Floor application</b> - with normal-setting adhesive: 24 hours - with fast-setting adhesive: 4-6 hours - with mortar: 7-10 days	<b>Wall application</b> - with normal-setting adhesive: 24 hours - with fast-setting adhesive: 4-6 hours - with mortar: 2-3 days
<b>Application temperatures allowed</b>	From +10°C to +30°C
<b>Set to light foot traffic (T = +23°C)</b>	24 hours
<b>Ready for use</b>	7 days
<b>Joint width</b>	From 1 to 6 mm
<b>How to clean equipment</b>	Can be cleaned with water while still wet. Once hardened, only clean mechanically

**PERFORMANCE**

<b>Temperature of use</b>	From -15°C to +80°C
<b>Resistance to abrasion*</b>	≤ 500 mm <sup>3</sup>
<b>UV ray resistance</b>	Excellent
<b>Resistance to humidity</b>	Good

\*Internal method tested on real grouting

## CHEMICAL RESISTANCE TABLE

Group	Name	Conc. %	Typically found in	30'	24h	More than 24h
<b>Acids</b>	Acetic acid	10	vinegar	●	●	●
	Hydrochloric acid	10	Muriatic acid	●	●	●
	Phosphoric acid	10	Household detergents	●	●	●
	Lactic acid	10	milk	●	●	●
	Oleic acid	pure	oil	●	●	●
	Citric acid	10	Household detergents	●	●	●
<b>Alkalis</b>	Ammonia	10		●	●	●
	Caustic soda	10		●	●	●
	Sodium hypochlorite	10	Bleach, disinfectants, household detergents	●	●	●
<b>Oils and fuels</b>	Olive oil	pure		●	●	●
	Lubricant oil	pure		●	●	●
	Petrol	pure		●	●	●
	Diesel	pure		●	●	●
<b>Solvents</b>	Ethyl alcohol	pure		●	●	●
	Hydrogen peroxide	pure		●	●	●
	Acetone	pure		●	●	●
	Ethylene glycol	pure		●	●	●

- Excellent resistance
- Good resistance
- Poor resistance

## STAIN RESISTANCE TABLE

Product	Contact time	
	5 minutes	60 minutes
Oil	0	0
Vinegar	0	1
Wine	0	1
Coffee	0	0
Ketchup	1	1
Mascara	1	2
Felt pen	0	3

- Key  
 0 = no change  
 1 = light mark  
 2 = mark  
 3 = strong mark  
 4 = stain

## CONSUMPTION TABLES

mm	kg / m <sup>2</sup>	mm				
		2	3	4	5	6
10x10x4		2,50				
15x15x4		1,70				
20x20x4		1,25				
50x50x4		0,50				
100x100x6		0,40	0,60	0,75	0,95	1,15
100x100x10		0,65	0,95	1,25	1,60	1,90
120x240x12					1,20	
200x200x8		0,30	0,40	0,50	0,63	0,75
250x250x12					0,75	
250x250x20					1,30	
300x300x10		0,22	0,32	0,42	0,53	0,65
300x600x4,5		0,10	0,12	0,15	0,20	0,25
300x600x10		0,18	0,25	0,30	0,40	0,50
330x330x10		0,20	0,30	0,40	0,50	0,60
400x400x10		0,16	0,25	0,32	0,40	0,50
450x450x12		0,17	0,25	0,33	0,41	0,50
500x500x12		0,15	0,22	0,30	0,37	0,45
600x600x3		0,03	0,05	0,06	0,08	0,10
600x600x4,5		0,05	0,07	0,09	0,12	0,14
600x600x12		0,12	0,19	0,25	0,31	0,37
600x1200x3		0,02	0,03	0,05	0,06	0,07
1000x3000x3		0,01	0,02	0,025	0,03	0,04

Although the information provided in this technical data sheet is accurate to the best of our knowledge and experience, it is intended purely as a guideline.

The user must carry out preliminary practical tests before each use and is solely responsible for the final result.

Sheet no. 320

Revision no. 0

Date: August 2019

## LITOKOL S.p.A.

Via G. Falcone 13/1 - 42048 Rubiera (RE) Italy  
 Tel. +39 0522 622811 - Fax +39 0522 620150  
 www.litokol.it email: info@litokol.it