

INNO-FIX

FOX EPOXYFUGA FX142

Chemical and Bacteria Resistant, Solvent Free Adhesive and Grouting Material

Description

FOX EPOXYFUGA FX142, is an epoxy resin based, chemical and bacteria resistant, hygienic, solvent-free, easily applied, grouting and adhesive material used for adhering and grouting materials such as tile, marble, granite.

**EN 13888-1:2022 - complies with RG class.
RG Reaction resin based grouting materials.**

Fields of Application

- Indoor and outdoor, wall and floor applications,
- Swimming pools and thermal pools,
- All kinds of food production facilities,
- Meat and fish industry, slaughterhouses,
- In the pharmaceutical, paint, paper, battery and fertilizer industries,
- Printing presses, industrial kitchens and laundries, cafeterias,
- All kinds of hygienic environments in hospitals,
- Waste water and treatment plants,
- Used in shopping centers, terminals, etc. subject to heavy pedestrian traffic.

Advantages

- Resistant against chemicals and bacteria.
- Hygienic.
- High mechanical strength.
- Dirt resistant, easy to clean.
- Suitable for joint widths from 2 mm to 10 mm.
- Resistant against freezing - thawing effect.
- Can be used in drinking water contact.

Technical Properties

Material structure	A Component B Component	Epoxy resin Epoxy hardener
Density		1,55±0,05
Compression Strength After Dry Storage	EN 13888-2:2022, 9.1	≥45 N/mm ²
Flexural Strength After Dry Storage	EN 13888-2:2022, 9.1	≥30 N/mm ²
Abrasion Strength	EN 13888-2:2022, 9.4	≤250 mm ³
Water Absorption	EN 13888-2:2022, 9.2 (after 4 hours)	≤0,10 gr
Shrinkage	EN 13888-2:2022, 9.3	≤1,5 mm/m
Floor Temperature		+5°C /+30°C
Temperature Resistance	Dry environment Wet environment	-20°C /+80°C -20°C /+50°C
Pot Life		~45 min
Grouting Time	On tiles	≤24 hours after
Grouting Cleaning Time	Over Coating	≤15 min
Opening time for pedestrian traffic		≤24 hours after

The above values are given for +23°C and 50% relative humidity. High temperatures shorten the time, low temperatures lengthen the time.

Application Procedure

Substrate Preparation

The adhesive used for tile adhesive should be allowed to reach the required strength. Make sure that the tile surfaces are clean before applying the material.

Mixing

FOX EPOXYFUGA FX142, is packaged in suitable quantities in component form. If part of the package is to be used, resin A/hardener B = 100/6 (by weight) is mixed. It should be mixed for at least 3 minutes with a drill with a 400-600 rpm mixer bit until a homogeneous two-component mixture is formed.



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Mixing Ratios

Component A; 5 kg Epoxy resin

Component B; 0.3 kg Epoxy hardener

Attention; Hardener Component (0.3 kg) is in the resin package.

Application

FOX EPOXYFUGA FX142, is filled into the grout joints with a plastic or hard rubber trowel or with the help of a grout gun. Excess material is scraped from the grout. In deep grouts, the first applied material settles in the grout. Make sure that the grout is completely filled. Wait for 15 to 30 minutes depending on the ambient and surface temperature, clean the surface with a suitable sponge and warm (room temperature) detergent water and finalize the grout. The sponge that gets dirty during cleaning should be changed frequently.

Cleaning of Tools

After application, the tools and equipment used should be cleaned with warm (room temperature) water with detergent.

FOX EPOXYFUGA FX142 can only be cleaned from the surface by mechanical methods after hardening.

Cleaning of Tiles

Epoxy based grouting materials form a film layer over the tiles. This layer must be cleaned thoroughly. Cleaning becomes very difficult when it is delayed. The last film layer on the tiles should be cleaned 4 to 10 hours after the application with the help of a suitable sponge and hot detergent water, and the surface should be wiped by adding 10% alcohol to the last cleaning water.

Consumption

Tile Sizes			Epoxy Based Grouting Consumption (gr/m ²)						
			Grout Depth (mm)						
Width (mm)	Length (mm)	Grout Depth (mm)	1	2	3	4	5	6	8
25	25	4	512	1024	1536	2048	2560	3072	4096
50	50	4	256	512	768	1024	1280	1536	2048
100	100	6	192	384	576	768	960	1152	1536
100	100	8	256	512	768	1024	1280	1536	2048
100	100	10	320	640	960	1280	1600	1920	2560
200	200	6	96	192	288	384	480	576	768
200	200	8	128	256	384	512	640	768	1024
200	200	10	160	320	480	640	800	960	1280
300	300	6	64	128	192	256	320	384	512
300	300	8	85	171	256	341	427	512	683
300	300	10	107	213	320	427	533	640	853
330	330	6	58	116	175	233	291	349	465
330	330	8	78	155	233	310	388	465	621
330	330	10	97	194	291	388	485	582	776
450	450	6	43	85	128	171	213	256	341
450	450	8	57	114	171	228	284	341	455
450	450	10	71	142	213	284	356	427	569
300	600	6	48	96	144	192	240	288	384
300	600	8	64	128	192	256	320	384	512
300	600	10	80	160	240	320	400	480	640
400	800	6	36	72	108	144	180	216	288
400	800	8	48	96	144	192	240	288	384
400	800	10	60	120	180	240	300	360	480
600	600	6	32	64	96	128	160	192	256
600	600	8	43	85	128	171	213	256	341
600	600	10	53	107	160	213	267	320	427
600	1200	6	24	48	72	96	120	144	192
600	1200	8	32	64	96	128	160	192	256
600	1200	10	40	80	120	160	200	240	320

Consumption amounts are theoretical. Values are given in gr/m².



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Watch Points

- **FOX EPOXYFUGA FX142** should be mixed mechanically, not with a trowel. Working and reaction times in epoxy resin based systems are affected by ambient temperature, floor temperature and humidity in the air. Low temperatures slow down the reaction, prolong pan life and working time. At the same time, viscosity will increase and therefore consumption will increase. High temperatures accelerate the reaction and shorten the working time and pan life. In order for the material to complete its curing, the ambient and ground temperature should not fall below the minimum temperature given.
- In **FOX EPOXYFUGA FX142** application, if the ambient and ground temperature is below +5°C or above +30°C, suitable temperatures should be expected. Do not apply in extremely hot, windy and rainy weather. If application will be made in cold weather, the packages should be conditioned in a warm environment between +20°C and +25°C to increase the workability of the material.
- **FOX EPOXYFUGA FX142** should be cleaned with soapy water at room temperature within 15 to 30 minutes after application.

Special Notices

FOX EPOXYFUGA FX142 should be mixed with a suitable mixing drill.

It should never be mixed by hand or with a trowel.

Working and hardening times of epoxy resin based products depend on ambient and floor temperature.

The most suitable application temperature range is +20°C to +25°C.

Water and new material should never be added to the FOX EPOXYFUGA FX142 mixture.

Colors

Gray, White, Dark Gray, Black, Beige, Bitter Brown, Transparent

Special colors can be produced when min. 325 kg (min. mixing quantity) and above.

Package

5,30 kg Plastic bucket

Shelf Life

When stored properly at room temperature, away from direct sunlight, between +5°C and +30°C, the shelf life is 12 months from the date of production. Opened packages should be closed and consumed within 1 week.

Storage

It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out system. For long term storage, pallets should not be stacked on top of each other.

Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, it should not be contacted with the skin and eyes, should be washed immediately with plenty of water and soap, and if swallowed, seek medical attention immediately. Food and drink materials should not be brought to the application areas. It should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

Disclaimer

The data contained in this technical document are based on our scientific and practical knowledge. Fox Bau Yapı Kimyasalları A.Ş. is only responsible for the quality of the product. Our company cannot be held responsible for any consequences that may occur due to misuse and/or misuse other than the written recommendations on where and how to use the product. For detailed information, the safety data sheet and technical data sheet should be consulted or our company officials should be contacted.



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