

# FUGOPOX AB

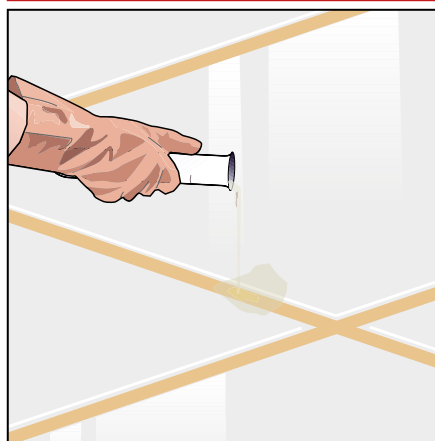
TWO-COMPONENT EPOXY ADHESIVE GROUT  
FOR GROUTING TILES (for 1 to 20 mm joints)  
EXPOSED TO CHEMICAL AGGRESSION



CHARACTERISTICS			ENVIRONMENTAL	METHOD OF USE		PRECAUTIONS
WATERPROOF	TWO-COMPONENT	WATER BASED		MIX MECHANICALLY	APPLICATION WITH RUBBER TROWEL	

## PROBLEM

### GROUTING JOINTS EXPOSED TO CHEMICAL AGGRESSION



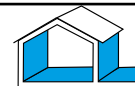
## SOLUTION

The joints of surfaces exposed to chemical substances require a very strong sealant that is able to withstand prolonged contact with chemically aggressive substances.

**FUGOPOX AB** is a two-component epoxy-based sealant reinforced with silica sands and special additives that ensure excellent workability and bonding to various supports. Once laid, it sets by chemical reaction; the hardened product offers excellent properties of mechanical and chemical resistance. In view of its perfect workability, it can also be used on upright walls.

## APPLICATION FIELDS

**FUGOPOX AB** is used indoors and outdoors, on floors or walls, in all situations that require resistance to acid chemical aggression or where foodstuff is processed. The main fields of use are in laboratories, restaurants, bathrooms, sports centres, industrial flooring, swimming pools, purifier tanks, tiled anti-acid floors and walls in dairies, foodstuff processing industries, hospitals etc.



Internal and external floors and lining

## ADVANTAGES

- Excellent resistance to chemical agents.
- Extensive field of use for any type of tile.
- Excellent bond to various supports and tiled surfaces.



## CHEMICAL RESISTANCE OF CERAMIC COATINGS POINTED WITH FUGOPOX AB

Name	Concentration contact at 20°C	Continuous contact at 20°C	Temporary contact at 20°C	Name	Concentration contact at 20°C	Continuous contact at 20°C	Temporary contact at 20°C	Name	Concentration contact at 20°C	Continuous contact at 20°C	Temporary contact at 20°C	Name	Concentration contact at 20°C	Continuous contact at 20°C	Temporary contact at 20°C	
• Alkali and saturated solutions				Potassium permanganate	10%	-	(+)	Lactic acid	2.5%	+	+	Olive oil			+	+
Ammoniacal solution	25%	+	+	Potassium hydroxide	50%	+	+	Lactic acid	5%	(+)	+	• Solvents				
Caustic soda	50%	+	+	Oxygenised water	1%	+	+	Lactic acid	10%	-	(+)	Ethyl alcohol			(+)	+
Hypochlorite solution:				Oxygenised water	10%	+	+	Nitric acid	25%	+	+	Acetone			-	-
Active chlorine	6.4 g/l	(+)	+	Oxygenised water	25%	(+)	+	Pure oleic acid		-	-	Ethylene glycol			+	+
Active chlorine	162 g/l	-	-	Sodium bisulfite	10%	+	+	Phosphoric acid	50%	+	+	Glycerine			+	+
• Saturated solutions at +20°C				• Acids				Phosphoric acid	75%	-	(+)	Perchloroethylene			-	(+)
Sodium thiosulphate		+	+	Acetic acid	2.5%	+	+	Sulphuric acid	1.5%	+	+	Trichloroethane			-	-
Calcium chloride		+	+	Acetic acid	5%	(+)	+	Sulphuric acid	50%	+	+	Trichloroethylene			-	-
Iron chloride		+	+	Acetic acid	10%	-	+	Tartaric acid	10%	+	+	Methylene Chloride			-	-
Sodium chloride		+	+	Hydrochloric acid	37%	+	+	Oxalic acid	10%	+	+	Toluene			-	-
Sodium chromate		+	+	Chromic acid	20%	-	-	• Oils and fuels				Benzene			-	(+)
Aluminium sulphate		+	+	Citric acid	10%	-	-	Gasoline		+	+	Xylol			-	-
Sugar		+	+	Formic Acid	2.5%	+	+	Petrol		+	+					
Potassium permanganate	5%	(+)	+	Formic Acid	10%	-	-	Diesel		+	+					

LEGENDA: + Resistenza ottima (+) Resistenza buona - Resistenza scarsa

## METHOD OF USE

### • SUBSTRATE PREPARATION

The substrate must be carefully clean and free from substances such as oil, cement or dust. It must be dry to guarantee perfect bonding of the product.

### • MIX PREPARATION

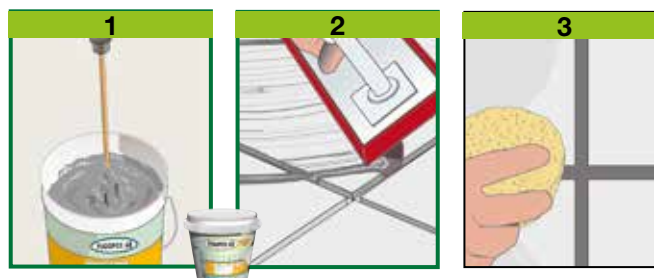
Mix components **A** and **B** in the prepared batches using a mechanical stirrer until the product is thoroughly mixed (1).

### • APPLICATION

Apply **FUGOPOX AB** using a hard rubber trowel or a flexible metal trowel (2). The workability time depends on the application tem-

perature; at 20°C it is roughly 45 min.. It will take foot traffic after about 15 hours. At lower temperatures it is necessary to wait a few days. Clean the surfaces promptly using a wet sponge (3). Should cleaning be delayed and the product has already started to set, use water with 10% of CLEANPOX.

If the product has actually set, it can be (See following)



# TECHNICAL CHARACTERISTICS

		FUGOPOX AB	
	Standard	COMPONENT A	COMPONENT B
Appearance		Thick paste	Thick liquid
Mix ratio		4.5	0.5
Density	EN 2811-1	1.60 ± 0.10 kg/L	1.00 ± 0.10 kg/L
Colour		White	Grey
Shelf life in original packaging		24 months	
<b>Mix characteristics and workability</b>			
Density of mix		1.60 ± 0.10 kg/L	
Open time - at 20°C (*)		approx ≥20 minutes	
Adjustment time		approx ≥45 minutes	
Pot Life		approx ≥60 minutes	
Minimum application thickness		1 mm	
Maximum application thickness		10 mm	
Waiting time - before foot traffic use (initial hardening) (*)		approx 24 hours	
Waiting time - final hardening (*)		approx 5 days	
Waiting time - using in swimming pools (*)		approx 7 days	
Application temperature		+5°C ÷ +35°C	
Application		manual	
<b>Performance characteristics</b>		<b>Product performance</b>	
<b>Class and type</b>	EN 13888	<b>RG</b>	
Adhesion to concrete (sanded)	EN 7783-1	> 2.5 N/mm <sup>2</sup> - (breakage of the support)	
Adhesion to steel (sanded grade SA2,5)	EN 7783-1	> 8.0 N/mm <sup>2</sup>	
Compression strength - after 1 day	EN 12808-3	> 5 N/mm <sup>2</sup>	
Compression strength - after 14 days	EN 12808-3	≥ 45 N/mm <sup>2</sup>	
Bending strength - after 1 day	EN 12808-3	> 2 N/mm <sup>2</sup>	
Bending strength - after 14 days	EN 12808-3	≥ 30 N/mm <sup>2</sup>	
Resistance to abrasion	EN 12808-2	≤ 250 mm <sup>3</sup>	
Chemical resistance		see table - (minimum after 4 days)	
Compression cutting elastic modulus		10 000 ÷ 11 000 N/mm <sup>2</sup>	
Linear shrinkage	EN 12808-4	≤ 1.5 mm/m	
Reduced water absorption - after 240 minutes	EN 12808-5	≤ 0.1 g	
Thermal resistance - Working temperature		-20°C ÷ +100°C	

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. These parameters may vary based on the specific conditions of the worksite: temperature, humidity, ventilation, porosity of the substrate. (\*) The stated times may be longer or shorter as the temperature decreases or increases. Compliant with the general principles defined in EN 13888 - Principles for evaluation of the use of products and systems.

(See previous)

cleaned after 7 days using the epoxy product cleaner "CLEANPOX".

### • COVERAGE

The exact formula for calculating the coverage of any size of tile is indicated below.

$$\frac{(A + B)}{(A \times B)} \times C \times D \times 1,6 = \text{coverage (kg/m}^2\text{)}$$

A = Tile length (mm)  
B = Tile width (mm)  
C = Tile thickness (mm)  
D = Gap width (mm)

### • PRECAUTIONS

- Never cover the joints with sheets/clothes after grouting to avoid damage caused by residual moisture from the bottom.
- Do not use on expansion joints or joints subject to movement.
- Clean coatings and tiled surfaces before the product has set and equipment immediately after use.
- Wait at least 1 or 2 weeks before using aggressive chemicals on FUGOPOX AB.
- This product is not damaged by frost. If it has crystallized it can be used after it is reheated.

- In case of tiles with polished surfaces or microporous enamels do a preliminary test on a small portion to check whether it is cleanable.
- When grouting natural stone tiles, test for the possible absorption of the epoxy resin to make sure it will not cause permanent stains before application.

## PACKAGING

### FUGOPOX AB

- Component A:
- Component B:

### 5.0-kg

- 4.5-kg-Pail
- 0.5kg-Can

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

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the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering