

Fugapox Style

Industria 4.0





Two-component, acid-resistant epoxy resin, with high mechanical and chemical resistance; to glue and seal structurally floor and walls in industrial and dwelling estates. Complying with the HACCP system and with the requirements of EC no. 852/2004 regulation on the hygiene of foodstuffs.

















Fields of application:

· AS AN ADHESIVE:

For internal and external gluing of floors and walls in any size and thickness, in porcelain stoneware, ceramic, single and double firing, glossy mosaic, ceramic mosaic, natural stones or agglomerates, linoleum and PVC, even with overlapped installation. Suitable for swimming pools, tanks with thermal or salty waters;

· AS SEALANT

Acid-resistant, waterproof epoxy grouting, for indoors and outdoors joints of floors and walls, from 2 to 20 mm.
Grouting of floors and walls in any size in porcelain stoneware, indu-

Grouting of floors and walls in any size in porcelain stoneware, industrial stoneware, low thickness stoneware, thin stoneware, clinker, single firing, double firing, glossy mosaic, ceramic mosaic, brick glass, natural stones and agglomerates, granites. Grouting resistant to ag-

gressive substances and detergents for household use and in industrial processes.

For grouting surfaces such as exterior façades, balconies, swimming-pools, fountains, bathrooms, saunas, wellness centres, heating floors, highly-trampled premises, masonry kitchens and bathrooms, mildew-resistant groutings.

· Product for professional use.

Characteristics:

Fugapox Style Industria 4.0 is a highly deformable two-component epoxy adhesive/sealant in class EN 12004 R2TE and EN 13888 in class RG. The formulation of Fugapox Style Industria 4.0 allows for gluing and grouting, with high mechanical resistance and dimensional stability in the joints. The toughness of the product makes it possible to obtain laying systems that can be considered structurally united, especially required in the industrial field. It also has the ability to distribute important loads and isolate the single tile, absorbing vibrations of various kinds. The high creaminess improves application and cleaning, reducing construction times, with less waste of material.

Application:

mix **Fugapox Style Industria 4.0** component A with component B with a mixer at low speed, to obtain a homogeneous and plastic mixture, paying attention to the application temperatures, $+12^{\circ}$ C to $+35^{\circ}$ C. Apply as an adhesive, with a spatula suitable for the size of the tile and, if required, carry out the double spreading technique EN I 1493 point 7.9/7.11. Apply as a sealant with a rubber trowel, filling the joint and removing any excess product. Emulsify with water and felt, cleaning the surface with a suitable sponge (Spugnapox) leaving it free of residues.

Quality and Environmental Standards:

Fugapox Style Industria 4.0 undergoes constant, careful testing at our laboratories, in compliance with the legislation in force UNI EN ISO 9001/2015.

C€	Opera Srl Via degli Scavi 19/21 47122 Forlì - Italy			
DOP-IT-01-071 FUGAPOX STYLE INDUSTRIA 4.0 EN 12004:2007-A1.2012 Improved reactive adhesive for laying ceramic tiles indoors and outdoors on walls and floors				
Fire reaction Adhesion Strength: -Adhesion to initial shear	doors on walls and floors			
indoors and out	Class E-E-fl. ≥2,0 N/mm² rmal shock ≥2,0 N/mm²			

Characteristics		
Excellent creaminess		
High chemical and		
mechanical resistance.		
Waterproof		
Excellent adhesion on any surface		
High cleanability		
Excellent durability over time		

Application procedure	Consumption	
Notched trowel	3,5 – 5 kg/m²	
Rubber spatula	Storage	
29 - Silver 30 - Gray Cement	Shelf life of 12 months in the original packages at temperatures above +5°C. Do not expose to direct sunlight	

Code	Product	Color	Packages	Palette
2514030 2514029 2514002	Fugapox Style Industria 4.0 Fugapox Style Industria 4.0 Fugapox Style Industria 4.0	Gray Cement Silver	10 kg (9,4+0,6) 10 kg (9,4+0,6) 10 kg (9,4+0,6)	440 kg 440 kg 440 kg

excellent (see chart)

from -20°C to +90°C

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Warning:

- mix until obtaining a complete amalgam of the three components;
- do not use to grout porous surfaces such as terracotta and check in advance that the materials on which it is cleaned can be cleaned applied;
- completely clean the surfaces of the materials before Fugapox Style 4.0 harden. At the end of the grip it will be extremely difficult;
- operate at high temperatures or on surfaces exposed to direct sunlight it also significantly shortens the time of workability of the product;
- bear in mind that temperatures below +12°C can considerably lengthen the hardening time and workability can be difficult due to the hardness of the mixture;
- wait for the final hardening before subjecting it to chemical attack;
- do not use Fugapox Style 4.0 for elastic fractionation joints;
- light colors may be sensitive to UVA rays.

reclinical and application specification	olis .				
Hazard classification as per Directive 99/45/CE:	comp. A: Xi-irritating comp. B: C-corrosive comp. C: none				
Pot weight:	1,55 g/cm³				
Pot life:	about 45 min				
Mixing ratio:	comp A: 2,82 comp B: 0,18				
Application temperature:	from +5°C to +35°C				
Waiting time for sealing joints with normal adhesives:	about 4-7 hours (on the wall) I day (floor)				
Waiting time for sealing joints with rapid adhesives:	about 2 hours (on the wall) about 3 hours (on the floor)				
Walk-over time:	24 hours				
Ready for use: about 4 days					
FINAL PERFORMANCE SPECIFICATIONS EN 12003					
Initial cutting resistance:	24 N/mm²				
Cutting resistance after immersion in water:	23 N/mm²				
Cutting resistance after thermal shock:	24 N/mm²				
Resistance to abrasion (EN 12808-2):	145 mm³				
Resistance to flexion (EN 12808-3):	40 N/mm²				
Resistance to compression (EN 12808-3):	76 N/mm²				
Retreats (EN 12808-4):	0,80 mm/m				
Absorption of water after 240 min (12808-5)	0,05 g				
Acid resistance:	excellent (see chart)				

Measurement of data at $\pm 23^{\circ}$ C / 50% U.R. residual Humidity and no ventilation. The data may be considerably modified by the conditions of use.

Resistance to damp, solvent, oil, alkalis and ageing:

Temperature resistance:

Harmonised curstoms code:

Technical and application specifications







Chemical resistance of ceramic tiling with joints filled using FUGAPOX STYLE 4.0 Continuous use at Intermittent. use Group Conc. Name 20° C 20° C 2,5 % (+) 5 % (+) Acetic 10 % Hydrochloric 37 % (+) Chromic 20 % Citric 10 % 2,5 % Formic 10 % 2,5 % 5 % (+) Lactic 10 % (+) Acids 25 % (+) Nitric 50 % Oleic 50 % (+) Phosphoric 75 % 1,5 % Sulphuric 50 % (+) 98 % Tannic 10 % (+) Tartaric 10 % Oxalicv 10 % Ammonia 25 % Caustic Soda 50 % 50 % Caustic Potash Saturated Solutions Ipoclorido Sodio Active Chlorine 6,5 g/l (+) + Active Chlorine 162 g/l Sodium hyposulphite Sodium chloride Calcium chloride Iron chloride **Saturated Solutions** Aluminium sulphate Sugar 1% Hydrogen peroxide 10% Sodium bisulfite + Tannic Tartaric Alkalis, Saturated Solutions Oxalic Olive oil Ethanol Acetone Ethylene glycol Glycerin + Perchlorethylene **Solvents** Trichlorethane Trichloroethylene Methylene chloride Toluene Benzene Xylene

Key: + Excellent resistance / (+) Fair resistance / - Poor resistance