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EPOSTUK

Two-component epoxy sealant featuring high chemical resistance and workability for 2 to 20 mm joints. Ideal for industrial environments subject to aggressive chemicals.

groutings
and sealants

TECHNOKOLLA

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EN 12004 as ADHESIVE

EN 12004 as ADHESIVE

EN 13888 as SEALANT

MAIN FEATURES

High resistance to aggressive chemicals
Optimum workability
High mechanical strength
High degree of hardness
Optimum cleanability

APPEARANCE

Comp. A-thick paste in 3 colours (see colour card in www.technokolla.com)
Comp. B-viscous liquid

STORAGE

24 months in dry place at temperatures from +10 to +30°C

FIELDS OF USE

- Grouting the joints in ceramic or stone* floors or walls, e.g.: porcelain stoneware, split tiles, ceramic or marble mosaic. In places or on surfaces subject to aggressive chemicals, such as: dairies, laboratory tables, tanneries, paper-mills, industrial kitchens, slaughterhouses, wine-making enterprises, etc.
- Grouting the joints in floors subject to heavy traffic, industrial storehouses, shopping centers, etc. EPOSTUK can be used as adhesive (class R2T in accordance with EN12004) for glueing the above mentioned cladding materials to iron and fiberglass reinforced plastic.
- Suitable for grouting swimming pools, also when filled with seawater.

* To make sure the colour does not change, it is advisable to perform a cleanability test before grouting natural stone materials.

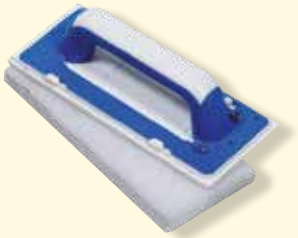
NATURE OF THE PRODUCT

EPOSTUK consists of two components containing epoxy resins, quartz charges and specific additives.
For further details, ask the technical office for the safety brief or download it from the web site www.technokolla.com.

HOW TO PREPARE THE MIXTURE

EPOSTUK is a “reactive” sealant. This means that it sets through chemical reaction between two components, A and B. It is very important to thoroughly mix these components together.
Start by pouring the liquid (comp. B) onto the paste (comp. A), then stir using a blender with a spiral whisk attachment.
The reaction developed by these products is exothermic (heat develops). Remember that if the components are stirred at high speed, the heat developed will considerably speed up the hardening process and, thus, shorten the time the product can be worked.
The creamy paste obtained can be easily applied by trowel.

RECOMMENDED ACCESSORIES



Soft white felt

Trowel

Handle for sponges and felts

Sweepex sponge

Washing trough with 3 rollers

GROUTING OPERATION

Apply EPOSTUK with a rubber trowel, and make sure that the joints are filled completely. Wipe off any excess sealant with the edge of the applicator.

Squeeze a sponge soaked in water over the grouted surface and emulsify the product with medium-hard felt by making circular movements over the surface. Take care not to empty the joint. Excess product can be easily removed with a soft rubber scraper. After cleaning, it is very important for the tile surface to be completely free from traces of grouting as it is very difficult to remove once hardened. Frequently rinse the sponge with clean water when cleaning.

AVAILABLE COLOURS

00 WHITE
01 MANHATTAN
03 ASH

WARNINGS AND RECOMMENDATIONS

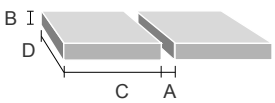
- Do not attempt to use random percentages of the product: incorrect catalysis ratio will compromise the hardening process
- Do not use the product after it becomes difficult to apply. Prepare fresh mixture
- Wear rubber gloves at all times when using the product.
- The consumption data refer to the following types of tiles: Single-fired tiles, Split tiles, Porcelain stoneware. Do not use on porous surfaces (e.g.: cotto)
- Do not use EPOSTUK when there is water in the joints
- Do not use for grouting that is subject to movements
- Do not wash with acids or strong oxidants during application

GROUTING CONSUMPTION g/m²

TILE in cm	JOINT in mm					
	3	5	8	10	12	15
10x10x0.6	580	960	1550	1900	2300	2900
7.5x15x0.7	680	1100	1800	2200	2700	3400
15x15x0.9	580	960	1550	1900	2300	2900
12x24x0.9	540	900	1400	1800	2150	2700
12x24x1.4	840	1400	2200	2800	3400	4200
20x20x0.9	430	720	1150	1400	1700	2200
20x20x1.4	670	1100	1800	2200	2700	3400
20x30x0.9	360	600	960	1200	1400	1800
30x30x1	320	530	850	1100	1300	1600
30x30x1.4	450	750	1200	1500	1800	2200
30x60x1	240	400	640	800	960	1200
40x40x1	240	400	640	800	960	1200
50x50x1	190	320	510	640	770	960
60x120x1.1	130	220	350	440	530	660

CONSUMPTION CALCULATION FORMULA

$$A \times B \times \underset{\text{in mm}}{} \left[\frac{C + D}{C \times D} \right]_{\text{in cm}} \times 160 = \frac{g}{m^2}$$



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TECHNICAL DATA	VALUE	REQUIREMENT	STANDARD
Mixing ratio	(A:B) 94:6		
Temperature during application	min. +12°C, max +25°C		
Weight density of mixture	~ 1.6 kg/l		
Pot life	*40 min		
Treadable	* after 24 h		
Surface can be used	* after 3 days		
Thermal resistance	**from -20 °C to 100°C		
Abrasion resistance	~ 150 mm^3	≤ 250 mm^3	EN 12808-2
Flexural strength after dry storage	≥ 30 N/mm^2	≥ 30 N/mm^2	EN 12808-3
Compressive strength after dry storage	≥ 45 N/mm^2	≥ 45 N/mm^2	EN 12808-3
Shrinkage	≤ 1.5 mm/m	≤ 1.5 mm/m	EN 12808-4
Water absorption after 240 min.	≤ 0,1 g	≤ 0.1 g	EN 12808-5
Initial bond	~ 5.6 N/mm^2	≥ 2 N/mm^2	EN 12003
Bond after immersion in water	~ 7.4 N/mm^2	≥ 2 N/mm^2	EN 12003
Bond after thermal shock	~ 2.5 N/mm^2	≥ 2 N/mm^2	EN 12003
Creep	≤ 0.5 mm	≤ 0.5 mm	EN 1308
Open time	* 20 min.	° 20 min.	EN 1346

° according to standard “EN 12004”
* these times refer to a temperature of 23°C-50% R.H.. They are shorter at higher temperatures and longer at lower temperatures.
** the maximum temperature is to be understood as an occasional service and not as a continuous one.

SPECIFICATION

Ceramic floor and wall tiles must be grouted using epoxy-based sealant with high chemical resistance such as Technokolla’s EPOSTUK, which can be used to seal joints up to 20 mm.

Technokolla reminds you to examine the “**notes**” document that completes the information in this data sheet.
The document can be downloaded in the pdf format from the website www.technokolla.com.

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CHEMICAL RESISTANCE OF CERAMIC TILING GROUTED WITH EPOSTUK

TECHNICAL DATA

GROUP	NAME	CONCENTRATION %	CONTINUOUS SERVICE 20°C	DISCONTINUOUS SERVICE 20°C
ACIDS				
	Acetic	2,5	-	(+)
	"	5	-	-
	"			
	Hydrochloric	37	(+)	+
	Chromic	20	-	-
	Citric	10	-	-
	Formic	2,5	-	(+)
	"	10	-	-
	Lactic	2,5	-	(+)
	"	5	-	-
	"			
	Nitric	25	(+)	+
	"	50	-	-
	Oleic			-
	Phosphoric	50	-	(+)
	"	75	-	-
	Sulphuric	1,5	+	+
	"	50	(+)	+
	"	98	-	-
	Tannic	10	(+)	+
	Tartaric	10	(+)	+
	Oxalic	10	+	+
ALKALIS AND SATURATED SOLUTIONS				
	Ammonia	25	+	+
	Caustic soda	50	+	+
	Potash	50	-	(+)
	Sodium hypochlorite			
	Active chlorine	6,5 g/l	(+)	+
	Active chlorine	162 g/l	-	-
SATURATED SOLUTIONS				
	Sodium hyposulphite		+	+
	Sodium chloride		+	+
	Calcium chloride		+	+
	Iron chloride		+	+
	Aluminium sulphate		+	+
	Sugar		+	+
	Hydrogen peroxide	1	(+)	+
	"	10	(+)	+
	Sodium bisulphite		(+)	+
OILS AND FUELS				
	Gasoline		+	+
	Petroleum		+	+
	Diesel fuel		+	+
	Olive oil		+	+
SOLVENTS				
	Ethyl alcohol	15	-	(+)
	Acetone		-	-
	Glycol		+	+
	Glycerine		+	+
	Perchloroethylene		-	-
	Trichloroethane		-	-
	Trichloroethylene		-	-
	Methylene chloride		-	-
	Toluol		-	-
	Benzol		-	-
	Xylol		-	-

KEY: **+** Optimum resistance **(+)** Fair resistance **-** Poor resistance

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