



COLMEF
BUILDING BETTER

Neofil Poxy (A+B)

WATER-BASED, TWO-COMPONENT, REACTIVE EPOXY SEALANT-ADHESIVE WITH HIGH ABRASION RESISTANCE, NON-SHRINKING, WATERPROOF, MILDEW-PROOF, STAIN-RESISTANT, WITH HIGH CHEMICAL RESISTANCE FOR PROFESSIONAL GROUTING AND BONDING OF CERAMIC TILES OF ALL KINDS.



TECHNICAL DATA SHEET - REVISION 01/2023

DESCRIPTION

NEOFIL POXY (A+B) is a two-component product based on epoxy resins, mineral fillers and special additives, characterised by high workability and adhesiveness, easy cleanability and high chemical resistance. NEOFIL POXY (A+B), suitably applied, hardens by chemical reaction in a few hours, making it possible to obtain grouts with a smooth, compact, waterproof, mildew-proof, stain-resistant final surface with high abrasion resistance and high chemical resistance.

Conforms to European Standard EN 13888 - Class RG · Reactive sealant.

FIELDS OF APPLICATION

NEOFIL POXY (A+B) is used for filling joints that are between 2 mm and 10 mm wide between ceramic floor and wall tiles. Suitable for indoor and outdoor sealing between any type of ceramic tiles, single-fired, porcelain stoneware, large formats, klinker, marble and reconstituted material, glassy and marble mosaic, non-porous natural stones. NEOFIL POXY (A+B) is particularly suitable for sealing industrial floor and wall coverings where high mechanical strength, high resistance to abrasion and acid attack is required, floor and wall coverings in laboratories or food industries (such as milk plants, dairies, slaughterhouses, breweries, fishmongers, etc.), swimming pools, worktops and surfaces subject to frequent washing. NEOFIL POXY (A+B) can also be used for high adhesion and durability bonding of ceramic tiles, non-porous material, concrete and other building materials to all substrates commonly used in construction.

PREPARING THE JOINTS

The joints to be sealed must be dry, clean and free of dust throughout the entire thickness of the cladding, so as to have the most even depths possible; any adhesive or mortar that may have spilled during installation must be removed while still fresh. Sealing of joints can be carried out when the bedding mortar or adhesive used for laying is sufficiently hardened and has disposed of most of the residual moisture. NEOFIL POXY (A+B) is not affected by moisture in the substrate, but it is necessary that the joints are well dried during grouting.

APPLICATION

To prepare the mixture, pour NEOFIL POXY "component B" (hardener) into the container of NEOFIL POXY "component A" (resin) and mix thoroughly with an electric mixer at low speed until a homogeneous paste is obtained. This mixture remains workable for about 45 minutes at a temperature of +23 °C. The workability time is strongly influenced by the climatic conditions in that, at low temperatures (< +10 °C), the product will be less fluid and therefore more difficult to work with, while at high temperatures (> +30 °C) the setting and hardening process will be considerably accelerated.

Apply NEOFIL POXY (A+B) with a flexible metal trowel or hard rubber trowel, taking care to fill the joints to their full depth. With the same cut trowel, remove excess product.

Cleaning of floor and wall coverings after sealing with NEOFIL POXY (A+B) must be carried out "freshly", by wetting the surface with plenty of water and wiping with a hard or abrasive sponge such as, Scotch-Brite. When cleaning large surfaces, the use of a rotating felt brush is recommended to facilitate finishing operations. The liquid residue must be removed with a very absorbent sponge, to be rinsed frequently with clean water. In the final levelling of the grout, it is necessary that no traces of NEOFIL POXY (A+B) remain on the surface of the tiles as, once hardened, its removal would be very difficult and could only be carried out mechanically, with the risk of damaging the surface of the tiles. Under optimal environmental conditions, surfaces grouted with NEOFIL POXY (A+B) are walkable after 24 hours and can be put into service after approx. 8 days.

Applying the mixture as an adhesive

To use NEOFIL POXY (A+B) as an adhesive for laying tiles, prepare the mix as described above and spread it on the substrate with a trowel with suitable toothing. Join the materials to be bonded by exerting good pressure to ensure complete wetting. Once cured, the bond will be extremely strong.

RESA

INDICATIVE YIELD (kg/m ²) according to the size of the tiles, the thickness of the tiles and the width of the joints						
FORMAT (cm)	THICKNESS (mm)	JOINTS WIDTH (mm)				
		3	5	7	9	10
2x2	3	1,26	2,10	2,94	3,78	4,20
2,5x2,5	3	1,01	1,68	2,35	3,02	3,36
5x5	4	0,67	1,12	1,57	2,02	2,24
10x10	6	0,50	0,84	1,18	1,51	1,68
12,5x12,5	8	0,54	0,90	1,25	1,61	1,79
10x20	8	0,50	0,84	1,18	1,51	1,68
12,5x24,5	8	0,41	0,68	0,95	1,22	1,35
15x15	8	0,45	0,75	1,05	1,34	1,49
20x20	8	0,34	0,56	0,78	1,01	1,12
30x30	8	0,22	0,37	0,52	0,67	0,75
60x60	10	0,14	0,23	0,33	0,42	0,47
90x90	12	0,11	0,19	0,26	0,34	0,37

FORMULA FOR CALCULATING SEALANT YIELD:

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

Legend:


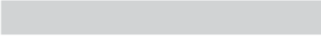


A and B = tile side dimensions (in mm)

C = thickness of the tile (in mm)

D = width of the joint (in mm)

1.4 = specific weight of sealant in kg/dm³

COLOUR CHART

	00 bianco
	06 manhattan
	25 grigio cemento
	03 beige

N.B. The colours shown above are purely indicative and may have slightly different shades from the original ones of the product for printing reasons.

RECOMMENDATIONS

- ◆ Always observe the mixing ratio between the two components: the packages are pre-dosed so do not use other portions of the product as an incorrect catalysis ratio would damage the curing process.
- ◆ Use the product with temperatures between +10°C and +30°C.
- ◆ When grouting stone materials, polished porcelain and porous surfaces, check the cleanability of the surfaces by always carrying out preliminary tests.
- ◆ Do not use NEOFIL POXY (A+B) for grouting tiles with wet edges or those soiled with cement residues, dust or oils.

PACKAGING

NEOFIL POXY (A+B) is supplied in pre-dosed packages in 5 kg buckets (320 kg pallets), containing both NEOFIL POXY "component A" and NEOFIL POXY "component B" inside. Store the product in a dry place and in its original packaging, well closed. In these conditions its stability lasts at least 12 months.

SAFETY INSTRUCTIONS

The product may cause an irritant reaction to the skin and respiratory tract. Use suitable clothing, gloves and protective glasses. Refer to the respective Safety Data Sheet for more information about how to use the product safely.

SPECIFICATIONS

Professional grouting by applying water-based, two-component, epoxy reactive sealant-adhesive, with high resistance to abrasion, anti-shrinkage, waterproof, anti-mould, anti-stain, with high chemical resistance, classified as RG by the EN 13888 Standard, type **NEOFIL POXY (A+B)** by COLMEF Srl, suitable for works where high mechanical resistance, high resistance to abrasion and acid aggression are required.

TECHNICAL DATA

Compliant with Standard:	EN 13888
Class:	RG
Colour:	see the colour chart
Apparent specific weight (g/cm ³):	"component A" 1.70 "component B" 1.00
Duration of the mixture:	~ 45 min.
Open time (as adhesive):	~ 30 min.
Adjustment time (as adhesive):	~ 60 min.
Walkability:	24 h
Commissioning:	7 days
Temperature resistance after 15 days (in air):	from -20 °C to +40 °C
Temperature resistance after 15 days (in water):	up to +45-50 °C
Allowed application temperature:	from +10 °C to +30 °C

FINAL PERFORMANCE according to EN 13888 Class RG

	Results	Reference standard
Abrasion resistance (mm ³):	≤ 250	EN 13888
Flexural strength after air conditioning (N/mm ²):	≥ 30	EN 13888
Compressive strength after air conditioning (N/mm ²):	≥ 45	EN 13888
Shrinkage (mm/m):	≤ 1.5	EN 13888
Water absorption after 240 min. (g):	≤ 0.1	EN 13888
Moisture resistance:	excellent	
Resistant to ageing:	excellent	

DATA DETECTION AT +23°C - 50% R.H. AND IN ABSENCE OF VENTILATION

The information in this bulletin is based on our best experience. We cannot be held liable for any product misuse. We therefore recommend anyone who intends to use this product to assess whether it is suitable for the intended application and to perform preliminary tests in any case. Always refer to the latest updated version of the technical data sheet available at www.colmef.com.

FOR MORE INFORMATION OR PARTICULAR USES, CONTACT THE COLMEF TECHNICAL SUPPORT DEPARTMENT.

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