

Poxycol (A+B)

POLYURETHANE BI-COMPONENT ADHESIVE, WITH NO VERTICAL SLIP, MIXED WHEN USED. AFTER HARDENING, HIGH CHEMICAL RESISTANCE, EXCELLENT IMPERMEABILITY AND DEFORMABILITY. SUITABLE FOR PROFESSIONAL LAYING OF CERAMIC TILES ON WALLS AND FLOORS. ALSO SUITABLE FOR NON-ABSORBING SUBSTRATES. FOR INDOORS AND OUTDOORS.



TECHNICAL DATA SHEET - REVISION 01/2022

DESCRIPTION

POXYCOL (A+B) is a two-component reactive adhesive consisting of a polyurethane base (component A) and a hardener (component B). By mixing the two components together, a thixotropic and very viscous paste is obtained which, once hardened, turns into an elastic, waterproof product with excellent durability and resistance to ageing and perfect adhesion on all substrates used in construction. POXYCOL (A+B) hardens by chemical reaction without undergoing any particular shrinkage.

For thicknesses up to 5 mm.

Conforms to European Standard EN 12004 - Class R2T · Improved reactive adhesive (R) (2) with no vertical slip (T).

FIELDS OF APPLICATION

POXYCOL (A+B) is used for indoor and outdoor bonding, both on the wall and the floor, of all types of ceramic tiles, such as single-fired, porcelain stoneware, laminated stoneware, thin slabs, large formats, klinker, fired, glassy mosaic, stone, marble and reconstituted material also sensitive to moisture.

It can be applied to plaster, concrete, self-levelling screeds, cementitious screeds, wood, metal, rubber, gypsum or plasterboard substrates, anhydrite screeds, heating screeds, elastic cementitious or elastomeric waterproofing membranes, old ceramic floors. POXYCOL (A+B) is suitable for bonding difficult or deforming substrates and for laying ceramic tiles on wooden or iron kitchen or worktops

SUBSTRATE PREPARATION

The substrates must be sufficiently dry and seasoned, mechanically resistant, flat, solid, compact, free of crumbling or inconsistent parts, without any dust and greasy substances, oil, paint, wax and any material that could compromise perfect product adhesion.

The cementitious substrates must have already completed the hygrometric shrinkage that can be evaluated in one or two weeks for each cm of thickness for the plaster and in at least 28 days of total curing for cementitious screeds, unless they are made with quick-drying ready-to-use screed and NEOCEM PRONTO FIBRATO compensated shrinkage or with special NEOCEM hydraulic binder.

Anhydrite screeds must be perfectly hardened, clean and dry (maximum residual moisture 0.5 %). For direct laying on plaster, gypsum plasterboard and anhydrite, it is advisable to consolidate the surface with consolidating primer.

Metal surfaces must be free of traces of rust, peeling old paint, oil or grease.

APPLICATION

POXYCOL (A+B) is supplied in plastic containers in pre-measured ratios, so the ratio of resin (component A) to hardener (component B) is imperative and any change may cause the product not to harden properly. Pour component B into component A and mix thoroughly with an electric mixer at low speed (200-300 rpm) to achieve perfect mixing and to

avoid overheating of the mass, which would reduce processing times. High temperatures have a significant impact on product processing times, lowering them dramatically. At high temperatures, it is advisable to make fractional mixes according to the work to be done, applying the mix quickly to prevent it from hardening in the tin, and adhering the tiles quickly before the adhesive forms a surface skin.

Apply the product to the substrate with a trowel of suitable tothing, spreading it first with the trowel on the smooth side and then with the trowel on the toothed side. The tiles must be absolutely dry. Tiles are laid by applying firm pressure to ensure contact with the adhesive.

The open time of POXYCOL (A+B) under normal temperature and humidity conditions is about 50 minutes. The setting speed is closely related to the ambient temperature.

When simultaneously waterproofing the substrate and bonding the tiles, trowel POXYCOL (A+B) onto the substrate with a smooth trowel to a thickness of approx. 2 mm. After 24 hours at the latest, apply a new layer with a notched trowel to bond the coating.

Make sure there are joints between tiles of at least 2-3 mm depending on the type and format of the coating. When laying with POXYCOL (A+B) on particularly deformable substrates, all floor coverings larger than 5x5 cm must be laid with a wide joint.

The grouting can be applied 12 hours after laying coatings and 24 hours after applying floors with the specific COLMEF mineral sealants, available in different colours. In the case of coating applications on flexible structures, it is advisable to leave gaps such that they can be sealed with elastic or flexible sealants.

The surfaces can be used after 7 days, depending on the environmental conditions.

YIELD

2-3 kg/m², depending on the type of substrate and the type of tile.

RECOMMENDATIONS

- ◆ Do not use on soiled substrates, substrates subject to rising damp, very damp surfaces or where there is a risk of capillary rising damp.
- ◆ The packages are pre-dosed and therefore no mixing errors are possible. Always respect the indicated proportions.
- ◆ High temperatures significantly shorten the curing time. Do not use at temperatures below +10°C or above +30°C.
- ◆ Residues of POXYCOL (A+B) on tools, containers and clothing can be removed with solvents before curing. Hardened POXYCOL (A+B) can only be removed mechanically.

PACKAGING

POXYCOL (A+B) is supplied in 5 kg packages (4.7 kg component A + 0.3 kg component B). The hardener bottle is located inside component A. Store in a dry place, in tightly closed original packaging and protected from frost. In these conditions its stability lasts at least 12 months.

SAFETY INSTRUCTIONS

Component A is an irritant and component B is corrosive. Avoid contact with skin and eyes. In case of contact with the eyes, wash immediately with plenty of water and consult a doctor. Keep out of the reach of children. Use protective glasses and gloves.

Refer to the respective Safety Data Sheet for more information about how to use the product safely.

SPECIFICATIONS

Professional laying of ceramic tiles on walls and floors with two-component polyurethane reactive adhesive, with no vertical slip, to be mixed during use, such as **POXYCOL (A+B)** by Colmef Srl, also suitable for non-absorbent substrates.

TECHNICAL DATA

Compliant with Standard:	EN 12004	
Class:	R2T	
	<i>COMPONENT A</i>	<i>COMPONENT B</i>
Appearance:	thick paste	fluid
Colour	white	straw yellow-pink
Specific weight (kg/L):	1.66-1.76	0.9-1.1
Dry extract at 120 °C:	96-98%	100%
Viscosity (m.Pas):	> 850000	300-700
Mixing ratio:	4.7	0.3
Specific weight of the mixture (kg/l):	~ 1.6	
Appearance of the mixture:	thixotropic	
Maximum applicable thickness (mm):	5	
Wall grouting after:	12 h	
Floor grouting:	24 h	
Commissioning:	7 days	
Allowed application temperature:	from +10 °C to +30 °C	
Thermal resistance:	from -40 °C to +120 °C	

FINAL PERFORMANCE

	Results	Test method
Initial shear adhesion (N/mm ²):	≥ 2.0	EN 12003
Shear adhesion after thermal shock (N/mm ²):	≥ 2.0	EN 12003
Shear adhesion after immersion in water (N/mm ²):	≥ 2.0	EN 12003
Open time: traction adhesion (min.):	≥ 20	EN 1346
Vertical slip (mm):	≤ 0.5	EN 1308

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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