

PERFIX MK

Single-component PUR adhesive

1. Product characteristics

Single-component PUR adhesive specially developed for bonding in the system of so-called dry construction. **PERFIX MK** proved well especially for adhesion of common construction elements of concrete, lightweight concrete, porous concrete (Liapor, Ytong, Porfix etc.) and for extruded polystyrene, polyurethane, natural stone, brick, wood and metal. It can be also used for bonding and fixing cement panels, cladding panels, structural panels, lightweight panels and insulating elements made of polystyrene, hard polyurethane boards etc.

- perfect adhesion to silicate substrates
- short hardening time even at subzero temperatures
- no volume changes
- easy application

2. Use

PERFIX MK is a universally usable adhesive intended for fast and solid bonding of various materials in the area of dry construction: concrete, hollow bricks, stone, plasterboard, cement-fibers panels, insulation materials, etc. **PERFIX MK** is widely used in restoration works and new constructions both in interior and exterior.

3. Physical and mechanical parameters

Color	yellow
Density (g/ml) (according to ISO 7390)	1.5 – 2.5
Insulation value mW/m.K (according to DIN 52612)	30 – 35
Coefficient of thermal conductivity λ W/m.K (according to ČSN 72 7012-2)	0.035
Temperature resistance (°C) (after hardening)	-40 + 90
Adhesive bond (MPa) - concrete	0.16
- polystyrene	0.14
Settling time (min.)	40 - 50
Dimensional stability (%)	-5 < DS < 0
Diffusion resistance factor μ	ca 28
Equivalent air thickness (m)	0.446
Reaction to fire (ČSN EN 13 501-1)	F

4. Test certificates

The product is certified according to § 12 of Act No. 22/1997 Coll. and according to § 6 of Government Regulation No. 163/2002 Coll. as amended.

Continuous independent production quality control is provided by AZL 1687 LABBET®.

Supervision of Quality Management Systems, Environmental Relations and OSH is carried out by Certification Body No. 3029.

5. Instruction for preparation

Surfaces according to specific application, must be clean, free of grease, oil and dust. Dry surfaces shall be moistened prior to the application, most preferably by spraying.

Temperature of the cartouche shall be higher than +5 °C for application, ideally +10÷20 °C. Hardening time depends on the temperature of the substrate and relative humidity. At normal conditions the adhesive loses the bonding ability after 10÷12 minutes. The adhesive can be „cut“ after 40 – 50 minutes (at 23 °C and RH >55%).

The „dry construction“ procedure is in detail described in a technological procedure No. 30/12 „Application of **PERFIX MK** single-component construction adhesive“.

6. Specific consumption

One **PERFIX MK** cartouche of 825 ml is enough for about 4 ÷ 6 m² with a nozzle of 4 mm in diameter, in dependence on roughness of the base, for flat and smooth surfaces with low roughness it is enough for about 5 ÷ 8 m² (with a nozzle of 3 mm in diameter).

7. Packing and storage

PERFIX MK is supplied in PE cartouches, cans of 825 ml. Store at dry cool place at temperatures between +5 to +25 °C. Shelf life of the product in original undamaged packing is 18 months. The expiration date is stamped on the package.

It is recommended to store the cans with the lid facing down.

8. Health protection at work

Handling **PERFIX MK** requires using a protective equipment and following the relevant safe instructions and hygienic measures. Further details on the safety and hygiene are described in the Safety Data Sheet. Issued MSDS meets the requirements of EC-Regulation 1907/2006, Article 31.

Because the product meets the criteria for classification as hazardous, it is necessary to provide the recipient or carriers with MSDS.

In countries where regulation REACH (par. 33.1): EU regulation on chemicals and their safe use (REACH: EC 1907/2006) is valid, professional users and distributors must be provided with following information automatically and without request:

This product is subject to Regulation (EC) No. 1907/2006 (REACH). It does not contain any substances that could be released from product under normal or reasonably foreseeable conditions of use. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.

Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from candidate list published by the European Chemicals Agency in concentrations above 0.1% (w / w).

9. Waste disposal

During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

10. Important notice

All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received orders are subject to our current "General sales and delivery conditions". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at www.betosan.cz.

Technical Data Sheet No. 9-11
Issued 2.1.2019



BETOSAN s.r.o., Na Dolinách 28, 147 00 Praha, Czech Republic
Business and technical office Nová Cesta 291/40, 140 00 Prague 4, Czech Republic
 Tel./fax.:+420 241 431 212, tel.:+420 241 431 215
 E-mail: paha@betosan.cz, www.betosan.cz

