

2K PU Flex



Two-component flexible polyurethane adhesive.



Properties:

- Excellent adhesion to most surfaces
- High strength and permanent flexibility of the glued joint
- Does not shrink
- Odourless
- Neutral colour

Advantages:

- Simple preparation and application
- Simple mix ratio – 1:1 directly from the cartridge
- Suitable for filling and sealing joints

Applications:

RETECH 2K PU Flex is a flexible self-leveling polyurethane adhesive, suitable to glue most thermoplastic materials such as polyethylene, polypropylene, PVC, polycarbonate, PET, polystyrene, acrylate, and others. It also adheres to steel, aluminium, copper, brass, glass, concrete, wood, and other materials. Thanks to a lower initial viscosity, it is very suitable for gluing, sealing, and filling non-pressure joints susceptible to mechanical impacts. Its high permanent flexibility makes it suitable to seal joints exposed to high temperature changes. **RETECH 2K PU Flex** is used as a universal adhesive and sealant for various industrial applications, repairs, assembly operations etc., where low initial viscosity and high final flexibility is desirable.

Storage:

In a dry place at a temperature +15 °C to +30 °C. Protect from direct sunlight and subzero temperatures.

Order codes:

Name	Storage code	Package	Volume / Size	Order number
2K PU Flex	2KPU	Double cartridge	50 ml	1 90001

Instructions for use:

1. If possible, roughen the joint using **RETECH Wimat Ultra Fine Grey**
 2. Remove dust, oils, and moisture from the joint
 3. Degrease using **RETECH Fine Cleaner** and leave to air out thoroughly
 4. Insert the cartridge into the 2K-gun
 5. Before placing the nozzle, push A + B components until they come out of the cartridge and wipe the outlet
 6. Place the mixing nozzle on the double cartridge
 7. Press and discard the first 20 mm – necessary for perfect mixing of both components!
 8. Apply **2K PU Flex** onto the joint and weigh down before curing with permanent pressure. The optimal layer, ensuring highest joint strength, should be at least 0.5 mm thick.
- When glueing/filling abutting joints, we recommend creating a 45° V-shaped bevel on both parts to be filled with the glue.
9. Manipulative strength is reached after 8 hours from application. After this period, the surface can be stressed, modified, etc.

ONLY FOR PROFESSIONAL AND INDUSTRIAL USE!

Technical data:

Chemical base:	Reactive polyurethane
Colour:	Neutral
Consistency at application:	Self-leveling gel
Viscosity mPa s:	4000 ¹⁾
Volume weight:	1.08 g/ml
Application temperature:	+10 °C to +30 °C
Processing time:	5 min ¹⁾
Adhesive fixture time:	15 min ¹⁾
Final curing:	8 hours ¹⁾
Exothermic reaction temperature:	50 °C up to 5 min.
Temperature resistance after curing:	-40 °C to +90 °C
Hardness SHORE:	40 D (ASTM D-2240)
Elongation at break:	45% (DIN 53504/ISO 37)
Tensile strength:	20 MPa (DIN 53504/ISO 37)
Specific electrical conductivity:	1.8x10 ¹⁴
Dielectric strength:	22 kV/mm
Thermal conductivity:	0.20 W/mK

¹⁾ at 20 °C / 50 % relative humidity

Health and Safety:

Health and Safety information is available in the Material Safety Data Sheet and on the label.

Declaration:

The information and recommendations in this publication are to the best of our knowledge reliable. However nothing herein is to be construed as a warranty or representation. Users should make their own tests to determine the applicability of such information or the suitability of any products for their own particular purposes. Statements concerning the use of the products described herein are not to be construed as recommending the infringement of any patent and no liability for infringement arising out of any such use is to be assumed.

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