



POLYURETHANE ADHESIVE

K-PURE 110



KEOL K-PURE 110 is a white, two-component polyurethane foam which sets extremely quickly, curing in few seconds at room temperature. It is used for installing and providing thermal insulation for doors and windows, as well as for insulating pipes, bathtubs and thermo-hydraulic installations. It can also be used for acoustic and/or electrical insulation. It is also ideal for fixing insulation panels (e.g. polystyrene, expanded polyester and cork), sealing cracks, holes and cavities, and for joining and sealing walls and roofs (including tile reinforcement). Its lightness, mechanical strength and rapid setting time make it particularly well-suited to a variety of applications.

- **LOW VISCOSITY**
- **EXTREMELY FAST CURING**
- **TEMPERATURE RESISTANCE**
- **VERSATILE APPLICATION**

CHEMICAL BASIS	Polyurethane
COLOR	White
HARDNESS	Rigid
VISCOSITY	8,000

PROPERTIES	Resin	Hardener	Mixed
Chemical basis	Polyol	Isocyanate	Polyurethane
Viscosity @ 25 °C cps	800	600	8,000
Density @ 25 °C	1.05	1.20	-
Color	White		
Mix ratio by volume	100 : 100		
Mix ratio by weight	89 : 100		
Application temperature	+10 to +30°C		
Gel time (10g @20°C)	3 seconds		
Expansion time (10g @20°C)	15 seconds		
Polymerization completed (10g @20°C)	120 minutes		
Density (kg/L)	0.125		
Hardness	Rigid		
Service temperature	-36 to +90°C		
Retention time (months)	12		
Storage temperature	+20 / +30°C		

THE BONDING KEY !



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APPLICATION OF THE PRODUCT

KEOL K-PURE 110 is available in two-component syringes and cartridges (in either a side-by-side or coaxial configuration), as well as in drums of various volumes. In all cases, a static mixer with at least 21 elements must be used to ensure a homogeneous mixture. Using fewer elements will not allow for complete mixing, while using more elements may accelerate the curing kinetics. The static mixer is for single use only. Two-component cartridges can be used with manual applicators or suitable pneumatic equipment depending on the format and capacity of the cartridges. For continuous applications, a suitable automatic dosing system for low-viscosity materials can be used. The KEOL technical department is available to advise on the choice and use of equipment requiring special conditions.

STORAGE & HANDLING & SAFETY

The product has a shelf life of 12 months from the date of manufacture, provided it is stored in a cool, dry place at a temperature between +20°C and +30°C. After opening, the cartridges can be used until the expiration date indicated, provided that storage conditions are respected and the last static mixer used remains in place. After opening, the cartridges can be used until the expiration date indicated, provided that storage conditions are respected and that the last static mixer used remains in place on the cartridge. Before reuse, it is recommended to clean the cartridge nozzle to remove any polymerized foam residue that could obstruct the flow of the product.

TECHNICAL CHARACTERISTICS OF THE PRODUCT AFTER CURING

Expansion ratio	1:9
Density	125 kg/m ³
Mechanical Resistance	0.2 N/mm ²
Closed cell contents	>90%
Water Absorption	2.0%vol
Thermal Resistance	0.04 W/(m.K)
Fire Resistance	self-extinguishing

The values indicated, obtained using standard test methods on representative batches, are provided for information purposes only and do not constitute contractual specifications for the product. It is the user's responsibility to carry out their own tests under the specific conditions of their application in order to validate the suitability of the product and give their final approval.

NOTE

The information, and particularly the recommendations regarding the application and the KEOL products, are given to you in good faith and are based on current knowledge and experience of the products having been properly stored, handled and applied under normal conditions. KEOL cannot take responsibility for the results obtained by others since we have no control over their method. It is up to the user to determine the suitability of the products for the specific application for any production methods mentioned in this document. Also, it is up to the user to adopt the necessary precautions as recommended for the protection of the establishment and the people against any kind of risks which could arise during the handling and the use of the products. KEOL cannot assume all the guarantees mentioned or implied, including guarantees of market value or of conformity for a specific reason, arising from the sale or use of KEOL products. KEOL cannot assume responsibility for any incidental consequences or damages of any kind, including lost profits. Users should always refer to the most recent edition of the technical data sheet for the product concerned. Copies of this document will be provided upon request. Users should always refer to the most recent edition of the technical data sheet for the product concerned. Copies of this document will be provided upon request. Users should always refer to the most recent edition of the technical data sheet for the product concerned. Copies of this document will be provided upon request.