



# KEMAFLEX PU

One-component, polyurethane-based putty

- ▶ Good adhesion on most construction and metal materials
- ▶ Fast curing
- ▶ Good mechanical properties
- ▶ Does not slip in vertical joints
- ▶ High strenght
- ▶ Can be painted over
- ▶ Non corosive
- ▶ Very good resistance on different weather conditions
- ▶ Good UV resistance
- ▶ Color: Grey



**PRODUCT DESCRIPTION** **KEMAFLEX PU is 1-component, polyurethane-based sealing-adhesive compound, for sealing dilatation joints in construction and bonding construction and metal materials.**  
**Colour: grey**

- PRODUCT PROPERTIES**
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## PRODUCT DATA

### BASIC INFORMATION

<b>Appearance</b>	Viscous compound in grey colour
<b>Packing</b>	600 ml in in ALU sleeve / 1200 ml (20x600 ml) in cardboard box
<b>Storage and expiration date</b>	18 months from the day of manufacture when stored propelry in dry place at temperatures from +5 °C to +25 °C and in the original, sealed and undamaged packaging. Manufacture date is stamped on the packaging.

### TECHNICAL DATA

#### FRESH PUTTY

<b>Base</b>	polyurethane
<b>Appearance</b>	viscous compound
<b>Curing mechanism</b>	with air humidity
<b>Specific weight</b>	1320 ± 20 kg/m <sup>3</sup>
<b>Skinning time</b>	50 min. at 23°C/50% RAH
<b>Cure time</b>	2-3 mm /day (+23°C and 50% RAH)
<b>Temperature for application</b>	from +5°C to +35°C

#### CURED PUTTY

<b>Shore A hardness</b>	40±5	ISO 868
<b>Volume changes</b>	less than 10%	ISO 10563
<b>Tensile strenght</b>	0,40-0,60 MPa	EN 28339
<b>100 % E Modulus</b>	more than 0,40 MPa	EN 28339
<b>Elongation at breaking point</b>	300-400%	ISO 8339
<b>Tensile strenght</b>	1,05-1,25 MPa	ISO 37 rod 1
<b>Elongation at breaking point</b>	300-350%	ISO 37 rod 1
<b>Thermal resistance after curing</b>	- 40°C to + 80°C	

## INSTRUCTIONS FOR USE

## CONSUMPTION **Correct dimensioning of expansion joints**

To reach optimal elastic properties of sealing compound it is important to have the right ratio of width to depth. (that is 2:1, or max. 1:1) Sealing compound should not have adhesion on bottom of the joint, but just on the sides of the joint. We can achieve this with using inert underlying materials (like KEMAFLEX PE X10). Minimal width of joint should be 6 mm and maximal 20 mm.

Table: Consumption of sealing compound per meter with one 600 ml unit regarding to width and depth of the joint:

DEPTH OF THE JOINT/ WIDTH OF JOINT (mm)	6	8	10	12	15	20
6	17,2	12,8	10,2	8,6		
8		9,6	7,6	6,4	5,2	
10			6,2	5,2	4,0	3,0
12				4,2	3,4	2,6
15					2,6	2,0
20						1,50

**BASE** The substrate must be solid, clean, free of dust, oil, fat residues, wax, diverging colors and any kind of dirt.

Suitable substrates:

Concrete - we recommend the use of PU 150 bonding primer beforehand

A brick

Wood

Email

Brass

Aluminum (raw and anodized)

Iron

Brass

Steel (stainless and galvanized)

Copper

Tiles (glazed and unglazed)

Various plastics (polycarbonate, hard PVC)

Glass

Lead

It is not suitable for surfaces made of bitumen, epoxy resin, natural stone, marble, plexiglass, polyester, polyethylene, ABS, Styrofoam and Teflon.

It should be inspected in accordance with applicable national and European standards, as well as building construction guidelines and accepted rules of general construction practice.

**BASE PREPARATION** Remove all splintered and badly bonded particles. For better adhesion on porous surfaces we recommend to use a primer KEMAGRUND A. It is necessary to wait until the primer is completely dry. In case that we want to have nice joints, we apply on the edge of the joint self-adhesive tape.

**INSTALLATION** Aluminum sleeve is installed into a suitable sleeve gun. Cut a slit at the top of the sleeve, where is a metal buckle which is used to seal the aluminium sleeve. In the joint that has previously been masked with self adhesion tape we apply the sealant. Extrude the sealant firmly into joint to ensure complete contact with joint faces. With suitable tool (or with a finger that has been soaked in soapy water) level the sealant. Emdiatly remove the masking tape, prior the skin begins to form on tje surface of sealant.

**CLEANING OF TOOL** Fresh putty on tolls and application equipment is cleaned with alcohol. Hardened/cured material can only be removed mechanically.

**OPEN TIME** ~ 50 minutes (at 23°C/50% RAH)

## LIMITATIONS

**BASE TEMPERATURE** +5°C min. / +35°C max.

**AIR TEMPERATURE** +5°C min. / +35°C max.

**MATERIAL TEMPERATURE** +5°C min. / +35°C max.

- WARNINGS**
- Times specified in the technical sheet were measured at the temperature of 23°C and relative air humidity of 50 %. Higher temperatures reduce, while lower temperatures prolong those times.
  - Application of sealing compound in direkt sun, draught, on frozen substrate,rain and wind is not allowed.
  - Protect freshly installed material from freezing, rain and other bad weather conditions. The material should not be used at (surface, air, material) temperatures lower than 5°C.
  - Fresh installed sealant is not treatable on rain and temperature below +5°C and above 35°C.
  - Painting of sealing compound: We recomend prior test filed to determine if the paint is compatible with sealing compound. Do not paint with alkyd resins-based paints (risk of slowing down the drying process).

**Recommendation:** Remains of unhardened/unset material had to be removed in accordance with the legislation.

**Data source:** All technical data in this technical sheet was obtained by laboratory research. Actual data may differ due to different working conditions, on which we do not have any influence.

**Local restrictions:** Due to specific local regulations the installed product can differ from country to country. For exact instructions for use a country specific technical sheet should be obtained.

## SAFETY DATA

During the application the ventilation of room is recommended. In case taht the sealing compound comes in contact with eyes, immediatly wash with a loot of water and seek medical help. For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

## LEGAL BASE

Information and recommendations related to use of KEMA products are presented in good faith and believed to be correct. The later is based on our knowledge and experience with the products. Information is supplied upon the condition that products are stored and used according to the recommendations and the persons receiving the same will make their own determination as to its suitability for their purposes prior to use. No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to Information or the product to which information refers. In no event will KEMA be responsible for damages of any nature whatsoever resulting from the use of or reliance upon Information or the product to which Information refers. Nothing contained herein is to be construed as a recommendation to the use any product, process, equipment or formulation in conflict with any patent, and KEMA makes no representation or warranty, expressed or implied that the use thereof will not infringe any patent. All orders fall under current sales and supply conditions. The user should always check the latest technical sheet available upon demand.