



# KEM JOINT PU 100

## Single Component Polyurethane Based Elastomeric Sealant

Ref. JS/1PU-V1-0112

### Description

KEM Joint PU 100 is single component polyurethane based elastomeric sealant which cures under the effect of atmospheric humidity to form a flexible and resistant joint with very good adhesion on most materials.

### Uses

- KEM Joint PU 100 can be used for heavy and light precast panel expansion joints, wood, aluminum and PVC joinery seams, and expansion joints in traditional construction.
- KEM Joint PU 100 is highly recommended for bonding baked clay and concrete roof tiles.
- This sealant has a good adhesion without primer on other current materials: most lacquered metals, polyester, glass, stone, ceramic tiles.

### Advantages

- Good adhesion
- High-bonding strength

### Typical Properties

**Appearance:** Pasty

**Color:** Various

**Density@20°C Black:** 1.16 ± 0.05; others: 1.18 ± 0.05

**Sagging (ISO 7390):** None

**Application temperature:** 5 to 35 °C

**Skin formation time at 23°C and 50 % HR:** Ca 70 min

**Cure time at 23°C and 50 % HR:** 3 mm/24 h

**Final Shore A hardness (ISO 868 - 3 seconds):**

Ca 40

**Modulus at 100 % (ISO 8339):** Ca 58 psi (0.4 MPa)

**Elongation at break (ISO 8339):** > 600 %

**Temperature resistance:** -40 to +80°C

**Resistance to dilute acids and bases:** Average

**UV resistance:** Good.

**Water and salt spray resistance:** Excellent.

### Compatibility with paints

**Water based:** Yes.

**Solvent based:** Carry out tests before handling.

**Specific Data:** Modulus @break (ISO37 Ca 1.4 MPa.)

### Direction for use

**Substrates preparation:** The substrates must be clean, even, dry, free of dust, oil, grease and any contaminants that could harm bonding. If the substrates need to be cleaned, use methylethylketone (MEK), acetone or grease remover. Apply a primer if necessary. Check the compatibility of the solvent used with the substrates. When using solvents, extinguish all sources of ignition and carefully follow the safety and handling instructions given by the manufacturer or supplier.

If necessary, rub down metal surfaces beforehand. After rubbing down, the surface should be recleaned. Allow the substrate to dry after degreasing. We recommend cleaning concrete with a metal brush.

**Caulking:** KEM Joint PU 100 may be applied by a manual or pneumatic gun. After application, use a putty knife to smooth the joint with soapy water. This product should be used within 24 hours of opening the cartridge protection; otherwise, the sealant could harden in the cartridge. Do not apply at a temperature under 5 °C. In cold weather, store the cartridges at 20 °C before use. Avoid any contact with non-cured MS, hybrid PU or silicone sealants as well as with alcohols or ammonia during curing.

**Cleaning:** Tools should be cleaned with MEK or acetone before the sealant has completely cured. After curing, abrasion is necessary.



## Packaging

310 ml cartridges and 600 ml sausages.

## Storage and Shelf life

12 months in the original, hermetically sealed cartridges or sausages between 5 and 25°C.

## Technical Service

Chembond has established itself in various fields on the basis of its dependable technical service. For this purpose, we maintain a well equipped laboratory for research & quality assurance of all products. Our experienced personnel are always on call and would always be available for product demonstrations and product performance monitoring.

## Safety precautions

Not classified as hazardous. Read the material safety data sheet before use.

The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired.

Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product.

Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions.

The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.

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