

**UNITECH**Isam Kabbani Group of Companies  
www.unitech-ikk.com | www.unipro-ikk.com**SEALANTS, ADHESIVES & CHEMICALS**

## POLY TI LOW MODULUS PU SEALANT 600 ML SAUSAGE TYPE

**POLY TI**

### POLY TI PU

#### PRODUCT DESCRIPTION

POLY TI PU is a moisture-curing, 1-component, polyurethane-based, non-sag elastomeric sealant. It is highly resilient and has excellent recovery characteristics. It can function under wide range of temperatures.

#### KEY PERFORMANCE PROPERTIES

- Easy to use
- Easy to extrude
- Short cut off string
- Bubble free curing
- Excellent adhesion to different construction materials
- Excellent weathering and ageing properties
- Can be over painted after curing
- Excellent resistance to chemicals micro organisms
- Meets ISO 11600 Classification F 25 LM

#### APPLICATIONS

Used in sealing movement joints in precast concrete construction, balcony parapets, bridge culverts, retaining walls, etc. for caulking joints around windows, doors, skirting, walls and floor joints.

#### TYPICAL PROPERTIES

Composition	1-part polyurethane, moisture curing
Consistency	Smooth and pasty
Colour	Grey,White,Beige and other colors available on request.
Skin formation	~ 60 minutes (+23°C / 50% r.h.)
Curing rate	~ 1 mm/24 hours (+23°C / 50% r.h.)
Movement Capability	25%
Specific Gravity	1.36
Joint dimensions	Min. width = 10 mm / max. width = 35 mm
Sag flow	0 mm, very good
Service temperature	-40°C to +70°C
Tear strength	~ 6 N/mm (+23°C / 50% r.h.)
Shore A Hardness	~ 30 after 28 days (+23°C / 50% r.h.)
E-Modulus	~ 0.4 N/mm <sup>2</sup> at 100% elongation (+23°C / 50% r.h.)
Elongation at break	~ 700% (+23°C / 50% r.h.)
Elastic recovery	> 70% (+23°C / 50% r.h.)

#### STORAGE AND SHELF LIFE

9 months from date of production if stored in undamaged original sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +25°C.

#### PACKAGING

POLY TI PU is available in 600ml sausages



## USAGE INSTRUCTIONS:

**Surface preparation:** all joints need to be absolutely clean. For concrete, sand blasting is recommended. All curing compounds, caulks, grease, water proofing compounds etc. need to be removed. For non porous surfaces such as glass, metal etc cleaning with M.E.K or Toluene is recommended. Polyethylene rod or polyurethane foam is recommended as a joint filler and back up material. Fillers treated with bituminous products, grease or oil should not be used. Where present they need to be removed or separated by vinyl tape or polyethylene film.

**Application:** apply by caulking gun, hand or pressure type bulk sealant can be applied by pumping equipment. Press firmly into joint to assure good contact and finish with a trowel or putty knife.

**Consumption / Joint:** The joint width need to be designed to suit the movement capability of the sealant. In General the joint width need to be > 10 mm and < 35 mm.

A width to depth ratio of ~ 2 : 1 need to be maintained.

### Standard design dimensions for concrete elements as per DIN 18 540 /table 3:

Joint distance	2 m	2 - 3.5 m	3.5 -5 m	5 -6.5 m	6.5 -8 m
Design joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Design joint width Joint depth	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	10 mm	12 mm	15 mm	15 mm

Minimum joint width for perimeter joints around windows: 10 mm

All joints need to be properly designed and dimensioned by the specifier and the main contractor in accordance with the relevant standards, because changes are not usually feasible after construction. The basis for calculation of the necessary joint width is the technical values of the joint sealant and the adjacent building materials, plus the exposure of the building, its method of construction and its dimensions

### Approximate consumption

Joint width	10 mm	15 mm	20 mm	25 mm	30 mm
Joint depth	8 mm	8 mm	10 mm	12 mm	15 mm
Joint length / 600 ml	~ 7.5 m	~ 4.5 m	~ 2.5 m	~ 1.6 m	~ 1.3 m

## CAUTION

DIRECT CONTACT WITH UNCURED SEALANT IRRITATES EYES AND MAY IRRITATE SKIN. OVER EXPOSURE TO VAPOUR MAY IRRITATE NOSE AND THROAT. Avoid eye and skin contact. Use with adequate ventilation. Do not handle contact lenses with sealant on hand.

In case of eye contact, flush eyes with plenty of fresh water for 15 minutes and obtain medical attention.

In case of skin contact, remove from skin and flush with water. KEEP OUT OF REACH OF CHILDREN. Consult Material Safety Data Sheet (MSDS) to know more about handling and safe usage.

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## SHIPPING LIMITATIONS

None

### NOTE

*The information and data contained in the product data sheet is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of the product for usage. Since the supplier cannot know all the uses, or the conditions of use to which the product may be exposed, no warranties concerning the fitness or suitability for particular use or purpose are made. It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application. Likewise if the application, product specifications or manner in which our products are used require government approval or clearance, it is the sole responsibility of the user to obtain sure authorization.*

### Non – warranty

*Because the storage, handling and application of the material is beyond Isam Kabbani Trading Est. control, we can accept no liability for the result obtained. Isam Kabbani Trading Est. sole limited warranty is the product meets the manufacturing specifications in effect at the time of shipment. There is no warranty or merchantability or fitness for use, nor any expressed or implied warranty. Isam Kabbani Trading Est. will not be liable for any incidental and consequential damage of any kind. The exclusive remedy for breach of such limited warranty is a replacement of any product shown to be other than warranted. Suggestions of uses should not be taken as inducement to infringe any patents.*



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