



DEUTHANE PU SEALANT

(Polyurethane Construction Joint Sealant)

DESCRIPTION:

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

ADVANTAGES:

- 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

APPLICATION:

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.

Surface preparation: all joints must be absolutely clean. For concrete, sand blasting is recommended. All curing compounds, caulks, grease, water proofing compounds etc. must 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 must 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 must be designed to suit the movement capability of the sealant. In General the joint width must be > 10 mm and < 35 mm.

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

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

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

Minimum joint width for perimeter joints around windows: 10 mm

All joints must 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

THEORITICAL COVERAGE:

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

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



STORAGE & SHELF LIFE:

08 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.

TECHNICAL SPECIFICATIONS:

Composition	1-part polyurethane, moisture curing
Consistency	Smooth and pasty
Color	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 ² 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.)



PACKING:

DEUTHANE PU SEALANT is available in 600ml sausage.



DISCLAIMER:

This data is provided in the belief that is accurate within generally accepted standards and is provided for the information of qualified personnel. It does not constitute an offer by the manufacturer. Nor does the manufacturer warrant or guarantee its accuracy or completeness in describing the performance or suitability of the various products. The users therefore should make their own determination in using the product of the data contained herein for any application.