

Product Data Sheet



ASMACO PU 90

Product Description:

ASMACO PU 90 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 ASTM C 920 and 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.
Skin formation	~ 60 minutes (+23°C / 50% r.h.)
Curing rate	2- 3 mm/24 hours (+23°C / 50% r.h.)
Movement Capability	25%
Specific Gravity	1.23 - 1.25
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	> 500% (+23°C / 50% r.h.)
Elastic recovery	> 70% (+23°C / 50% r.h.)

Toxicity: No restriction as cured

Usage Instructions:

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

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High Performance

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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.

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

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

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 the 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.

Storage and Shelf Life:

09 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:

ASMACO PU 90 is available in 600ml aluminum cartridge

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 Anchor Allied Factory Ltd's control, we can accept no liability for the result obtained. Anchor Allied Factory Ltd's 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. Anchor Allied Factory Ltd 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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POLYURETHANE FOAM • SPRAY PAINT • SILVER CLOTH DUCT TAPE • CREPE PAPER MASKING TAPE • ALUMINIUM FOIL TAPE
P.E. PROTECTION TAPE • PVC PIPE WRAP TAPE • CONTACT ADHESIVE • EPOXY STEEL • PVC CEMENTS • SUPER GLUE

