

weberseal PU

weberseal PU is a one part, moisture curing elastic joint sealant. Used as a general purpose building construction sealant for sealing joints

Advantages

- Excellent adhesion to most substrates
- Weather resistance, excellent aging resistance
- Movements capability of $\pm 50\%$
- High tear strength
- One component, excellent workability
- Can be painted over



Used for various substrates in building construction joints

- Concrete and precast
- Brick
- Wood
- Metal, aluminium
- PVC sections
- Stone and ceramic tiles

Filling construction joints where a higher modulus and lower movement capacity is required for low-medium movement conditions

- Connection between floor-floor, floor-wall, or wall-wall joints
- Seam sealing, sealing of pipe ducts, window and door frames, facades and cladding
- Joints in metal or wood construction

Package	Cartridge	300 ml. (25 cartridges/box)
	Sausage	600 ml. (20 sausages/box)

Color	White, Grey, Black
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Surface preparation

- Use on homogeneous substrates
- A clean and dry surface. No standing water
- Surface to be free from oil, grease, dust and loose or friable particles. Use MEK, acetone or grease remover for cleaning
- If necessary rub down metal surfaces beforehand. After rubbing down, the surface should be re-cleaned. Allow the substrate to dry after degreasing
- The main concrete drying shrinkage has to be completed prior sealing
- Clean concrete with a metal brush and remove dust afterwards
- In case of deep joints, backing rod has to be installed. The purpose of the backing rod is to avoid three point adhesion and maintain proper joint width : depth ratio
- Use masking tape seam beside the joint to protect from excessive sealant

Application

- Cartridge : Cut the end off threaded stub on cartridge, screw on nozzle and cut the nozzle to desired bead size at a 45° angle
- Sausage : Cut the wire clamped end of the sausage and fit with open end towards nozzle into a fully enclosed barrel gun
- Extrude the sealant firmly into the joint to ensure complete contact with joint faces. Smooth to finish if necessary with a spatula
- Masking tape is then removed immediately within 10-15 minutes after application
- Any uncured material can be removed using a suitable solvent or an approved sealant remover

Design criteria

The joint width must be designed to be within the movement capability of the sealant. In general, the joint width must be between 10-35 mm. The width to depth ratio of ~2:1. For wall and floor joints, the width to depth ratio is ~1:1





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Concrete joint distance

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.
Min. joint width	10 mm.	15 mm.	20 mm.	25 mm.	30 mm.
Joint depth	8 mm.	8 mm.	10 mm.	12 mm.	15 mm.

*Backing : If necessary, use extruded polyethylene foam backing rods with closed cell

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.

Storage and shelf life

12 months from date of production if kept in undamaged and unopened original sealed containers. Stored in protected area away from direct sunlight in dry conditions at temperature between +10°C and +25°C

Cleaning

Clean all tools and application equipment immediately with a suitable cleaner. Hardened/cured material should be removed mechanically

Limitations

- **weberseal PU** cannot be used as a glazing sealant
- Do not use **weberseal PU** on bituminous substrates, natural rubber, EPDM rubber or on building materials which might bleed oils, plasticizers or solvents which could attack the sealant
- Colour change may occur in time because of UV exposure, but this has no effect on the mechanical properties of the cured product
- The adhesion is low on PE, PP, PTFE
- Not resistant to organic solvents, organic acids, high concentrated alkalis/acids





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Technical Specification

Test	weberseal PU
Specific gravity	1.16 ± 0.02 kg./litre
Skinning time	~ 70 minutes (+23°C / 50% RH)
Curing rate	~ 3 mm/24h (+23°C / 50% RH)
Sagging	None
Movement capability	± 50%
Application temperature	+5°C to +40°C
Temperature resistance	-40°C to +80°C
Tear strength	~ 10 N/mm ² (+23°C / 50% RH)
Shore a hardness	≥ 40 after 28 days (+23°C / 50% RH)
E-Modulus	~ 0.3 N/mm ² at 100% elongation
Elongation at break	> 600% (+23°C / 50% RH)
Elastic recovery	> 70% (+23°C / 50% RH)
Fungus and algae resistance	Pass
UV and weathering resistance	Pass
Paintable	Yes : water based
Base	Polyurethane
Curing system	Moisture cured
Secant tensile strength	0.4 N/mm ² (+23°C/50% RH)
Chemical resistance	Seawater, cement, diluted alkalis, and water based detergents

Application standard

Standard	Classification
EN 15651-1	F EXT-INT CC Sealants for facade elements for interior and exterior
EN 15651-4	PW EXT-INT CC Sealants for pedestrian walkways for interior and exterior use
ASTM C920	Class 25 TypeS, grade NS, uses TI, NT, A and M
ISO 11600	F25 HM

