



PRODUCT DATA SHEET

weberseal PU

General-purpose polyurethane-based sealant for sealing joints and finishes

PRODUCT

weberseal PU is a single-component polyurethane-based sealant, which cures to form elastomeric mastic when exposed to atmospheric moisture. It shows excellent adhesion to a wide range of substrate materials, such as cementitious, glass, brick, ceramics, polyurethane, epoxy, polyester and metals. weberseal PU complies with ASTM C 920 Standard Specification for Elastomeric Joint Sealants class 25.

Uses

- Interior and exterior adhesive or sealing joints between most of the construction material where high or middle bond strength is required
- For seam sealing for waterproofing systems and finishes
- Suitable for a wide range of building materials, such as cementitious, bricks, ceramics, polyurethane, epoxy, polyesters, aluminium and glass
- General and multiple uses in plastics, metals, and woodwork

Features and Benefits

- Formulated to comply with ASTM C 920 - Standard Specification for Elastomeric Joint Sealants with class 25 sealant
- Tolerate up to 25% expansion and contraction under normal circumstances and temperatures
- Easy to use and good extrudability
- Good sagging resistance for vertical joint application
- Excellent UV and weathering resistance
- Outstanding adhesion and tensile strength
- Environmentally friendly materials with low VOC content comply with local regulations

PRODUCT DATA

Chemical Base	Polyurethane
Colours	White, Grey, Black
Density	1.40 g/cm ³
Package	600 ml soft cartridge, 20 pieces per box
Shelf Life	12 months in original sealed and undamaged packaging
Storage Conditions	Dry conditions with protection from direct sunlight and water (5°C - 27°C)
Application Temperature	5°C to 45°C

TECHNICAL PROPERTIES

Properties / Test	Standard/Regulation	Results*
Staining and Colour Change	ASTM C510	No visible staining & No colour change
Extrudability	ASTM C1183 / ASTM C1183M	25.51 mL/min
Rheological (Flow Properties)	ASTM C639	Vertical displacement: 0 mm Horizontal displacement: no deformation
Indentation Hardness	ASTM C661	40
Tack-free Time	ASTM C679	40 mins
Effect of Heat Aging	ASTM C1246	Weight loss: 0.82% No cracking No chalking
Adhesion & Cohesion Under Cyclic Movement (Class 25)	ASTM C719	Aluminium, Mortar & Glass substrates: No bond failure in all specimens
Accelerated Weathering and Bend Test	ASTM C793	250 hours of UV exposure: No crack Cold temperature bend test: No crack
Adhesion-In-Peel	ASTM C794	173.3 N
Material Identification	ADM/C&B/002	Polyurethane
Curing Depth	GB/T 32369	4.0 mm @ 24h 8.0 mm @ 7d

Complied Standards

American Standard : ASTM C510, C1183/C1183M, C639, C679, C1246, C719, C793, C794

Chinese GB Standard : GB/T 13477, 32369

LIMITATION

- Do not use weberseal PU on exposure to high content of chloride or around swimming pools
- Do not use weberseal PU on bitumen materials, rubber, polyethylene, polypropylene and Teflon, which may affect the adhesion of the sealant
- Do not use weberseal PU on the materials releasing oils, solvents or other substances which may attack the sealant
- Colour variations may occur owing to the high temperature and UV radiation. It does not affect the technical performance or durability of weberseal PU

JOINT 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 and 40 mm. The width-to-depth ratio of 2:1 is recommended.

CONSUMPTION

Joint Width (mm)	10	15	20	25	30
Joint Depth (mm)	10	10	10	12.5	15
Joint Length (m per 600ml cartridge)	6	4	3	1.9	1.3

*for backing materials please use closed-cell polyethylene foam rods

APPLICATION PROCEDURE

Substrate Preparation

Substrates should be structurally sound, clean, dry, homogeneous, and free of all bond-inhibiting compounds, like dirt, oil, grease, curing compounds, laitance etc. For deep joint applications, install suitable backing rods to the required depth and avoid three-point adhesion. Use masking tape when necessary and avoid excessive sealant.

Application

weberseal PU is supplied in 600 ml packages and is ready to use. Insert a soft cartridge of weberseal PU into the sealant gun and extrude the materials firmly into the joints. Ensure weberseal PU is in full contact with the joint faces. Smooth the sealant with suitable tools such as a spatula. Remove the masking tape within 10-15 minutes after application. Clean and remove the uncured materials using suitable cleaners or other approved sealant removers.

STORAGE AND PACKING

Shelf life of 12 months in unopened and original packages in a cool and dry storage area. Avoid direct sunlight, high temperatures and water. weberseal PU is available in 600 ml packages.

HEALTH AND SAFETY

Recommended to wear NIOSH-approved or equivalent particulate safety gloves and goggles when handling the materials. Keep out of reach of children.

Please refer to the Material Safety Data Sheet (MSDS) for health, safety and handling of the product.

CLEANING & DISPOSAL OF WASTE

Cured material can be removed mechanically, if uncured, the material can be removed with plenty of clean water. Dispose of waste in accordance with local legislation.

*Note: the information and technical data in this datasheet are given to the best of our knowledge under standard testing methods and controlled environments. The results may vary with different weather, site conditions, workmanship or substrates. This is beyond our control and we shall not be liable for any faults or consequences arising or associated with this. We suggest comprehensive tests to be conducted before final application. Unless specified, all technical data are average values with a curing

time of 28 days. We reserve the right to update or amend the contents in the light of new findings during the course or research and development.