

BOS PRODUCTS

POLYURETHANE SEALANT



MULTISEAL PU 25 – ONE COMPONENT FLEXIBLE POLYURETHANE SEALANT

Suitable for Concrete, Masonry, Stone, Wood & Metal.

BOS Sealant is supplied in **600ml sausages** and cures to form a flexible rubber-like seal. It exhibits not only excellent expansion and compression characteristics but also very good resistance to weather, stress movement, water and many chemicals.

BOS Sealant requires no mixing and has excellent adhesion to both porous and non-porous substrates. It can be easily applied in both horizontal and vertical joints, is self-curing and bonds to many materials, including concrete, PVC, masonry, aluminium and wood without the necessity to prime.

PROPERTIES

Colour on Setting - Various	Tack Free Time 60-90 min
Cure Rate 2mm / 24 hrs.	Hardness Shore A 25
Elongation at Break >600 %	Density 1,15 g/cm ³
Temp. Resistance -30C to +80C	Tear Strength 6.5 N/mm
Modulus 100% 0.3 MPa	Joint Movement 25%

APPLICATION & SETTING

Surfaces must be structurally sound, dry, clean, free of dirt, moisture, loose particles, oil, grease, asphalt, tar, paint, wax, rust, water proofing, curing and parting compounds and membrane materials. Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint. Tooling is recommended, this ensures the correct bead shape, a neat joint, and maximum adhesion. Curing varies with temperature and humidity. At 25C, 50% relative humidity and a joint 13mm width by 7mm depth, assume the following times:

[Skins overnight or within 24 hours. Functional within 3 days. Full cure in approximately 1 week.](#)

Concrete, stone and other masonry:

Clean by grinding, sandblasting or wire brushing to expose a sound surface free of contamination and laitance.

Wood:

New and weathered wood must be clean and sound. Scrape away paint to bare wood. For wood substrates with coatings or baked-on enamel or plastic finishes, test a small area before full application as coatings may affect the product adherence.

Metal:

Remove scale, rust and coatings from metal to expose a bright white surface. Remove protective coatings as well as any chemical residue or film. Aluminium window frames are frequently coated with a clear lacquer Which must be removed before the application. Remove any other protective coatings or finishes that could interfere with adhesion, or test a small area before full application.

OTHER TYPICAL APPLICATIONS

Paddle Flanges	PVC Piping
Concrete Joints	Precast Units
Aluminium & Wood Window Frames	Sealing fascia, parapets & other structural components

WATCH POINTS

- The number of joints and joint width should be designed for a maximum of $\pm 25\%$ movement.
- In joints of 6-12mm. the sealant depth at midpoint should be 6mm, in joints of 12- 25mm, the depth at midpoint should be 6- 12mm.
- In deep joints, the sealant depth must be controlled by a closed cell backing rod. Where the joint depth does not permit the use of backing rod, a bond breaker (masking tape) must be used to prevent three point bonding. To maintain the recommended sealant depth, install backing rod by compressing and rolling it into the joint channel without stretching it lengthways. Backing rod should be about 3- 5mm larger in diameter than the width of the joint to allow for compression. Soft backing rod should be approximately 25% larger in diameter than the joint width. Backing rod becomes an integral part of the joint. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backing rod
- Protect unopened containers from heat and direct sunlight.
- BOS Sealant should not be used for immersion in water.
- Do not apply over freshly treated wood; treated wood must have weathered for at least 6 months.
- UV exposure may cause White or light colours to discolour.
- BOS Sealant can be applied below. freezing temperatures only if substrates are completely dry, free of moisture, and clean. Temperatures below 5C will extend curing times.
- BOS Sealant should not come in contact with oil-base caulking, silicone sealant, polysulphides, fillers impregnated with oil, asphalt, or tar.

EQUIPMENT CARE

Immediately after use, clean equipment with multi-thinners 1600. Use proper precautions when handling solvents. Remove cured sealant by cutting with a sharp-edged tool. Remove thin films by abrading.

QUALITY ASSURANCE

At [BOS Products](#), we put quality foremost and ensure that all of our products meet industry standards. BOS Polyurethane Sealant testing programs comply with all local and international testing standards.

