PASIFFIRE SD PROJECTS
CONSTRUCTION CHEMICALS & SOLUTIONS
Building Stronger. Protecting Longer.

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Matsapha Industrial Site, Eswatini

TECHNICAL DATA SHEET

MULTI SEAL PU 25 - ONE COMPONENT FLEXIBLE POLYURETHANE SEALANT

DESCRIPTION

When applied, MULTISEAL PU 25 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. It is available in cartridge and sausage packaging.

TYPICAL APPLICATIONS

MULTISEAL PU 25 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, aluminum and wood without the necessity to prime. It is also extensively used in:

- Paddle Flanges
- PVC Piping
- Concrete joints
- Precast units
- Aluminum and wood window frames
- Sealing fascia, parapets and other structural components

TYPICAL 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%

WATCH POINTS

- The number of joints and joint width should be designed for a maximum of ±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 6-12mrn.
- 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 bondbreaker (masking tape) must be used to prevent three point bonding.

The information contained herein is based on our current knowledge and experience. It is the user's responsibility to ensure that the product is suitable for the intended application. Pasiffire SD Projects (Pty) Ltd reserves the right to change product specifications without prior notice.

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WATCHPOINTS CONT'D

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 bondbreaker is required. Do not prime or puncture the backing rod .

- Protect unopened containers from heat and direct sunlight.
- MULTISEAL PU 25 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.
- MULTISEAL PU 25 can be applied below freezing temperatures only if substrates are completely dry, free of moisture, and clean.
  Temperatures below 5C will extend curing times.
- MULTISEAL PU 25 should not come in contact with oil-base caulking, silicone sealant, polysulphides, fillers impregnated with oil, asphalt, or tar.

DIRECTIONS FOR USE

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.

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, consult Pasiffire SD Projects (Pty) Ltd for technical Information.

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. When a protective coating has been specified on metal, consult Pasiffire technical services before applying MULTISEAL PU 25.

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PAS-TDS-SLT-003

Priming

MULTISEAL PU 25 is generally considered a non-priming sealant, but special circumstances or substrates, e.g. protective coatings on aluminium may require a primer. It is the users responsibility to check the adhesion of the cured sealant on typical test joints at the project site before and during application. Refer to technical data sheet on MULTI PRIME 1308 and consult Pasiffire SD Projects (Pty) Ltd for additional information.

Apply primer full strength, with a brush or clean cloth. A light, uniform coating is sufficient for most surfaces; porous surfaces require a somewhat heavier although not excessive coat. Allow primer to be tack dry before applying MULTISEAL PU 25. Depending on temperature and humidity, primer will be tack free in 15-120 minutes. Priming and sealing must be done on the same work day. Consult Pasiffire technical services for additional information on primers for other surfaces.

Application

Fill joints from the deepest point to the surface by holding a properly sized nozzle against the back of the joint. Tooling is recommended. Tooling results in the correct bead shape, a neat joint, and maximum adhesion.

The cure of MULTISEAL PU 25 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

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.

PACKAGING

Supplied in 600ml Cartridge

QUALITY ASSURANCE

Pasiffire SD Projects (Pty) Ltd production and testing programs comply with all local and international testing standards.

UPDATES

This data sheet supersedes all previous issues prior to 18 May 2018 (Rev. 2).

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