

mart-SEAL PU 25

PREMIUM POLYURETHANE

SINGLE COMPONENT HYBRID CONSTRUCTION SEALANT

DESCRIPTION

mart-Seal PU 25 Premium Polyurethane Construction Sealant is a one-part, thixotropic isocyanate, solvent, and VOC free moisture curing, non-sag construction sealant, based on Hybrid technology. It is specifically formulated to provide a long-lasting, durable weather seal when filling exterior gaps, joints, and cracks. This high-performance sealant offers superior adhesion to most substrates and remains flexible to withstand up to 25% total joint movement when installed into a properly prepared joint. Exceptional cut and tear resistance.

CHARACTERISTICS/ADVANTAGES

- Suitable for both vertical and horizontal applications
- Gun Grade non-sag paste
- Good mechanical and wear resistance
- Good weathering and ageing properties
- Medium chemical and corrosion resistant
- Upon full cure – recessed joint will have limited dirt pick up.
- One-part, easy to apply & install.
- 25% total joint movement
- Paintable
- Interior / exterior use
- Superior adhesion & durability
- Not suitable for use in water retaining structures.
- Curing to a 25 Shore A hardness (+/- 5 Shore A).

FOR BEST RESULTS

- Application temperature range is between 5 - 35°C.
- The joint width should be designed to accommodate the expected movement accommodation factor (MAF) Joint ratio for 6 – 10mm wide joints is 1:1 thereafter a ratio of 2:1 should be respected.
- Backing cord/Bond Breaker should be used to prevent three-sided adhesion.
- Sealant should be installed when joint is at mid-range of its anticipated movement.
- Allow sealant to fully cure before applying paint, approximately 4 to 7 days depending on temperature, humidity, and depth of fill. The first coat should be a water-based paint, always check compatibility.
- Priming is not required for most construction materials.
- Do not use in submerged water applications.

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APPLICATION

Surface Preparation:

- Surface must be clean, dry, structurally sound, and free of old caulk, dirt, dust & other foreign material.
- For repairs or re-instating of existing joints, ensure that all previously installed sealant and foreign materials are removed by sandblasting or mechanical abrasion.
- Joints to be blown out with clean dry oil free compressed air.
- Priming is generally not required for most construction materials.
- **mart-PRIMER US** is recommended in porous substrates.
- **mart-PRIMER APU** is recommended if applied to natural stone, ceramics, masonry, and brick substrates.
- **mart-PRIMER SP** should be used in severe or damp conditions or substrates with minimal oil contamination.
- Depending on the joint surface, for the best results it may require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer. A roughened surface will also enhance the bond.
- Install bond breaker tape or backer rod to prevent bond at base of joint. Taping sides of joint is recommended in any size where an extremely accurate match to the edge is desired. The tape can be removed without difficulty any time up to four hours after application of sealant.

Application:

- Install sealant when joint is in mid-range of anticipated movement.
- Insert the tube into the caulk gun, cut the end of the tube and puncture the foil seal.
- Install bond breaker tape or **mart-BACKERCORD** closed cell polyethylene backing cord to prevent sagging and bonding at base of joint.
- Apply masking tape to adjacent areas to protect them from contamination and enable joints to be finished in a neat line.
- Apply sealant in an even bead along the seam or crack.
- Tooling is recommended immediately after application to ensure contact with the joint interface and to remove air entrapment.
- Use a soapy solution to smooth the bead of sealant and seal the seam. Clean up immediately with a damp rag.
- Remove masking tape before sealant is fully cured.

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CLEANING AND STORAGE

- Remove excess uncured sealant from surfaces and tools immediately with **mart-CLEAN**
- Follow up with washing tools with soap and water.
- Reseal cartridge for storage and reuse.
- Store in a cool dry place – Do not freeze.
- 12-month Shelf life if kept in the original packaging.

PACKAGING

mart-SEAL PU 25 comes in a 600ml sausage.

HEALTH AND SAFETY

- **mart-SEAL PU 25** is toxic when uncured.
- Contact with the skin should be avoided by wearing gloves, eye protection and protective clothing.
- In case of eye contact wash well and obtain medical advice
- Working area must be well ventilated during application and drying time.
- **mart-SEAL PU 25** once cured is harmless.
- Refer to **mart-SEAL PU 25** MSDS sheet.

COVERAGE

Approximate Coverage for estimating purposes

Joint Dimension:	Lineal meter per 600ml sausage:
6 x 6mm	16.6
8 x 8mm	9.38
10 x 10mm	6
12 x 6mm	13.9
15 x 8mm	8



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TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Mixing Ratio:	Single component
Skin over time:	1-2 Hrs dependant on RH, temp & thickness
Practical Cure:	+ 2mm per day dependant on RH & temp
Hardness:	+ 25 Shore A
Tensile strength:	0.5 - 1 Mpa
Elongation at break:	>200 %
Colour:	Grey, colours available on order
Density:	1.4 Cured
Movement accommodation:	25% of initial joint width
Shelf Life:	12 Months
Application Temp. :	5 - 35°C
Service Temp. :	-5°C to +60° C Dry
Pack Size:	600ml sausages
Cleaning:	mart-CLEAN
Storage:	Store in a cool dry place - Do not freeze

Disclaimer: The information contained in this document is given to the best of Mart Solutions' knowledge and is the result of extensive testing. However, this document will not under any circumstances be considered as a warranty involving Mart Solutions' liability in case of misuse. Tests should be carried out before any use of the product to ensure that the methods and conditions of use of the product are satisfactory. Mart Solutions specialists are at the disposal of the users in order to help them with any problems encountered.