

mart-SEAL PS 15

PREMIUM POLYSULPHIDE TWO-COMPONENT JOINT SEALANT

DESCRIPTION

mart Seal PS 15 PREMIUM is a two-component gun grade Polysulphide Joint Sealant. Polysulphide polymer blended with fillers and chemical curing agents, allows sealant to cure after mixing to form a durable rubber like seal. Sealant is highly elastic and able to withstand continues extension and recovery. Excellent adhesion to most common building materials such as concrete, plaster, brick, and stone. Cured sealant has good resistance to most common chemicals, fuel oils and solvents. Can be used in exterior applications as it resists deterioration to ultraviolet light and ozone. Superior adhesion in water retaining structures. **mart Seal PS 15** is non-toxic (does not contain lead) therefore can be used in potable water structures as well as swimming pools.

CHARACTERISTICS/ADVANTAGES

- Suitable for both vertical and horizontal applications
- Can be used to seal Interior / Exterior joints.
- Two-component Gun Grade non-sag paste
- Highly elastic, able to withstand continues extension with superior recovery characteristics.
- Excellent resistant to ultraviolet lights giving it good weathering properties.
- Superior adhesion & durability
- Resistant to most common chemicals, fuel oils and solvents.
- Curing to a + 15 Shore A hardness.
- Can be widely used in all potable water applications.

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.

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APPLICATION PROCEDURE

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.
- **mart-Primer US** is recommended in porous substrates and all water retaining structures.
- **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.
- 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.
- Mixing:
mart Seal PU 15 is supplied in a two part kit, 2lt base and 500ml activator. Transfer total quantity of activator into the base and mix thoroughly using a slow speed electric drill fitted with a flat paddle. Ensure to scrape down sides of can a mix until a uniformed colour and free of streaks. Thorough mixing is essential and should take 5 – 10mins. Avoid air entrapment.
- Fill sealant into a closed barrel gun using a follower plate or a small trowel.
- Gun sealant in a continuous flow of material in an even bead.
- Fill joint from top to bottom on horizontal joint.
- Ensure that there is contact between sealant and joint surfaces.
- 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.
- Store in a cool dry place.
- 12-month Shelf life if kept in the original packaging.

PACKAGING

mart-PS 15 comes in a 2lt kit.

HEALTH AND SAFETY

- **mart Seal PS 15** is non-toxic when cured.
- Contact with the skin should be avoided by wearing gloves, eye protection and protective clothing whilst application is in process.
- In case of eye contact wash well and obtain medical advice.
- Working area must be well ventilated during application and drying time.
- Refer to **mart-PS 15** MSDS sheet.
- Thioplasts with molecular ≥ 1800 are not hazardous products (Gefahrstoffverordnung v. 26.10.1993). The acute oral toxicity of all Thioplasts has been measured in rats as $>5\text{g/kg}$ body weight. Together with low level of resorption, the hazards for human health can therefore be regarded as minimal.

COVERAGE

Approximate Coverage for estimating purposes

Joint Dimension:	Lineal meter per 2 lt kit
6 x 6mm	54
8 x 8mm	31.2
10 x 10mm	20
12 x 6mm	27.6
15 x 8mm	16.6

500ml of **mart-Primer** for 20 x 600ml sausages (12lt) of sealant.



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TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Mixing Ratio:	Two part DO NOT split kits
Pot Life:	45min @ 25° C
Tac free:	2 days
Full Cure:	7 days
Hardness:	+ 15 Shore A
Colour:	Grey, colours available on order
Density:	1,49 g/cm ³
Shelf Life:	12 Months
Application Temp. :	5 - 35°C
Service Temp. :	-25°C to +90° C
Pack Size:	2lt kits
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.