

## TOUGHSEAL PS PG

*Two Part Polysulphide Joint Sealant***DESCRIPTION**

**TOUGHSEAL PS PG** is a two component polysulphide sealants that cures chemically to form a durable, flexible, watertight seal capable of accommodating dynamic joint movements. It is available in two forms: Gun Grade (GG) and pouring grade (PG).

**USES**

For sealing curtain wall panels, tilt up panels, window glazing, flashing and metal setting. Also for all joint seal application where a short curing period is required, such as expansion and contraction joints inside walks, shopping Centre or any traffic areas.

**TOUGHSEAL PS PG** can be used in the portable water tanks and in sewage treatment plants. It will effectively prevent water from entering the sealed joints and thereby eliminate erosion of the soil underneath the slabs. Particularly areas which are watered frequently, such as swimming pool decks and around planters which must be protected. All coping joints and deck joints where should be sealed. In clay soil areas, where unsealed joints may cause swelling of the soil and subsequent bucking and cracking of the concrete slab.

**SURFACE PREPARATION**

All joints must be absolutely clean. For concrete, sand blasting is recommended. All curing compounds, old caulks, grease, water proofing compounds, etc. must be removed. For non-porous surfaces such as glass, metal, etc. cleaning with MEK or Toluene is recommended. Polyethylene rod or polyurethane foam is recommended as a joint -filler and back-up material.

**FIELDS OF APPLICATION**

Apply by caulking gun, hand or pour from container. Bulk sealant can be applied by pumping equipment. Press firmly into joint using a trowel or putty knife to ensure good contact. Porous surface have to be primed with Seal range of primer. Maintenance: if **TOUGHSEAL PS PG** is damaged, and the joint has not been contaminated, it can be repaired by cutting out that part and resealing it with **TOUGHSEAL PS PG**.

**TECHNICAL PROPERTIES**

| DECIPTION                    | VALUE                             | STANDARDS         |
|------------------------------|-----------------------------------|-------------------|
| Color                        | -                                 | Grey              |
| Form                         | -                                 | Thixotropic paste |
| Pot life @77°F (25°C)        | 1hrs                              | ASTM C 920        |
| Tack free time @ 77°F (25°C) | 10hrs                             |                   |
| Cure time @77°F (25°C)       | 24hrs                             |                   |
| Tensile strength             | 110psi                            | ASTM D 412        |
| Solid content                | 100%                              |                   |
| Elongation                   | 700%                              |                   |
| Shore A Hardness             | 15±5                              | ASTM D 2240       |
| Service Temperature          | (-40°F to 175°F)<br>-40°C to 79°C |                   |

All values given are subject to 5-10% tolerance.

**JOINT DESIGN**

Suitable for all properly designed joints following accepted engineering practice. Joint width must be a minimum of 4 times the anticipated movement.

**TOUGHSEAL PS PG** is having minimum movement accommodation factor of 25%.

**MIXING**

**TOUGHSEAL PS PG** is a two part product and required mixing. Pour all of the hardener supplied into the bulk polysulphide base and slowly mix with a low speed mechanical mixer for 3-5 minutes. Make sure that the sides of the can are scraped to assure that all of the base and hardener are thoroughly mixed.

## COVERAGE

| JOINT SIZE<br>(W:D) IN MM | RUNNING MTR<br>PACK OF 4LTR | RUNNING MTR<br>PACK OF 2.5LTR |
|---------------------------|-----------------------------|-------------------------------|
| 10X10                     | 40.00                       | 25.00                         |
| 20X10                     | 20.00                       | 12.50                         |
| 20X20                     | 10.00                       | 6.25                          |
| 30X20                     | 6.66                        | 4.16                          |
| 30X25                     | 5.33                        | 3.33                          |
| 30X30                     | 4.44                        | 2.78                          |
| 40X20                     | 5.00                        | 3.13                          |
| 40X30                     | 3.33                        | 2.08                          |
| 40X35                     | 2.86                        | 1.78                          |
| 40X40                     | 2.50                        | 1.56                          |

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## PACKAGING

Pouring grade – 4 litre kit

Gun Grade – 2.5 litre kit.

## STORAGE

Store in cool dry place, not over 25°C away from direct sun light and source of heat, don't allow freezing.

## SHELF LIFE

Keep away from direct sunlight and store under normal warehouse conditions. Container must be tightly closed. Shelf life of this product is 12 months from the date of manufacturing.

## HEALTH & SAFETY

Always use appropriate PPE including gloves, goggles and a barrier cream to avoid contact with skin and eyes. Should contact with skin or eyes occur, wash immediately with plenty of clean water and seek medical advice.



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