

# KingSeal<sup>®</sup> PS200

**Non biodegradable two-part polysulphide sealant.**

## DESCRIPTION

KingSeal PS200 is a two-part polysulphide sealant, which when the components are mixed together, cures to form a hard wearing flexible rubber seal. It has good adhesion to concrete, stone, metals, ceramics and many other common building substrates.

## APPLICATIONS

For sealing joints in flat roofs, heavily trafficked floor joints and water retaining and sewage structures.

*Note:* Not recommended for joints subject to large and frequent movement and for use with potable water.

## STANDARDS

BS EN ISO11600 F 25HM.

## METHOD OF USE

### Joint Preparation

The joint surfaces must be clean and free from all contamination. The surfaces should be degreased using the appropriate King cleaner. Primers may be required on some substrates. It is recommended that KINGKRETE Technical Department should be consulted and advice obtained with regard to the choice of primer for specific purposes.

### Mixing

The base and curing agent ratio controls the adhesion, strength and durability of KingSeal PS200. The whole contents of the curing agent pack must therefore be added to the base and the components thoroughly mixed.

### Application

The normal method of application is to fill the mixed sealant into Flex barrel guns using a heavy duty follower plate. The barrel of the gun is placed over the hole in the center of the plate. Steady downward pressure and withdrawal of the plunger rod results in the barrel of the gun being filled. The sealant is then ready for application. The sealant should be extruded firmly into the joint by maintaining an even pressure on the trigger of the gun.

All joint preparation, priming, and sealant application should be carried out in accordance with BS8000, Part 16, the British Standard for the sealing of joints in buildings using sealants.

## TECHNICAL PROPERTIES

Colour:	Grey
Typical shore A hardness:	45 - 55
Working life:	1 - 1:30 hrs. @ 20°C
Application temperature:	5 - 50°C
Service temperature:	-50 - 80°C, intermittent exposure up to 100°C
Cure rate:	14 days @ 20°C in a typical 10 mm x 10 mm joint. At colder temperatures the cure rate will be extended. When used in harsh environments e.g. sewage plants etc. a longer cure period may be required
UV resistance:	Good
Service life:	20 years (When used in trafficked areas or in special environments such as sewage plants, the life may be reduced)
Movement accommodation:	
Butt joints (movement in tension and compression)	20%
Lap joints (movement in shear)	40%

## PACKAGING

KingSeal PS200 is available in 2 liters packs (includes base and curing agent). KingSeal Prime PS and KingSeal Primer are available in 500 ml tin.

## YIELD

KingSeal Prime PS and KingSeal Prime approximately 125 meters/ tin.

## SEALANT QUANTITY ESTIMATOR

Joint size mm	Meters per Litre
6 x 6	27.75
9 x 6	18.50
12 x 9	9.25
18 x 18	3.08

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## JOINT SIZE SUITABILITY

### Joint Width

- ☐ Minimum 6 mm.
- ☐ Maximum 25 mm (single application), 50 mm (multiple application).

### Joint Depth

- ☐ Minimum 10 mm on porous substrates (12 mm in floor joints).
- ☐ Minimum 6 mm on non porous substrates (12 mm in floor joints).
- ☐ Maximum 25 mm.

**Width : Depth Ratio** (Within above min./max. restrictions)

- ☐ 2 : 1 butt joints.
- ☐ 1 : 1 lap/floor joints.

## ACCESSORIES

- ☐ KingCleaner TB130: 1 liter tin (Toluene based – not suitable for use with plastics or delicate finishes).
- ☐ KingCleaner AB160 : 1 liter tin (Alcohol based).
- ☐ Equipment: Bulk loading guns and heavy duty follower plates.

## STORAGE

Shelf life is 1 year when stored under cover, out of direct sunlight and protected from extremes of temperature.

Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging. For specific storage advice consult KingKrete's Technical Services Department.

## HEALTH AND SAFETY

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

## NOTE

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local KingKrete representative.

KingKrete Inc. reserves the right to have the true cause of any difficulty determined by accepted test methods.

## QUALITY AND CARE

All products originating from KingKrete's Qatar facility are manufactured under a management system independently certified to conform to the requirements of the quality standard ISO 9001.

\* Properties listed are based on laboratory-controlled tests.

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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this KingKrete Inc. publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by KingKrete Inc. either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not KingKrete Inc. are responsible for carrying out procedures appropriate to a specific application.