KingSeal ® PP150

Elastomeric high performance cold applied fuel resistant pavement joint sealant

DESCRIPTION

KingSeal PP150 is a two component, chemical curing, cold applied, fuel and oil resistant pitch polyurethane sealant designed for use in all types of concrete pavement joints and has excellent adhesion properties to asphalt substrates.

KingSeal PP150 is also available in a fast curing grade, called KingSeal PP150F.

APPLICATIONS

- For sealing all types of joints in airport runways and aprons.
- For sealing all types of joints in car parks, and traffic decks.
- For sealing of all types of joints in warehouses, oil terminals, docks and harbours.
- For sealing all types of joints in sewage treatment plants.
- Suitable for horizontal joints only.

ADVANTAGES

- Cold applied, chemical curing sealant.
- Suitable for all climate conditions, weathering and UV resistant.
- Fuel and oil resistant.
- Excellent movement accommodation in butt and lap joints.
- Pourable and self-leveling.
- Good chemical resistance to a wide range of mild alkalis, diluted acids and solvents.

STANDARDS

British standard 5212:1990, Type N, F and FB. US Federal Specification SS-S-200E:1984 as Type H sealant.

METHOD OF USE

Substrate Preparation

All surfaces should be clean of dirt, laitance, foreign matter and curing compounds. After cleaning, a backing rod of an appropriate size should be placed in the joint to the required depth. Care should be taken not to puncture the backing rod during installation as punctures might create bubbling.

TECHNICAL PROPERTIES

Shore A hardness: ASTM D2240	25 ± 5
Solid content:	100%
Movement accommodation:	25% for butt joints 50% for lap joints
Mixed density:	1.35 ± 0.05 g/cm^3
Application temperature:	5 to 50°C
Pot life:	90 - 100 min @ 25°C
Elongation at break: ASTM D412, Die C	≥ 550%
Tensile strength: ASTM D412, Die C	≥ 1.4 MPa
Curing type:	Chemical cure
Tack free time: ASTM C679	< 5 - 6 hr @ 25°C
Service temperature:	-20 to 90°C
VOC: ASTM D2369	< 80 g/ltr

Note: The material can be still tacky for longer periods at low temperatures and low humidity

CHEMICAL RESISTANCE (Repeated spillage)	
Brake Fluid	Resistant
Jet fuel	Resistant
Diesel	Resistant
Kerosene	Resistant
White spirit	Resistant
Petrol	Resistant
Xylene	Resistant
Oleic acid	Resistant
Hydraulic oils	Resistant
Dilute acids	Resistant
Mineral oils	Resistant

Care should be taken to ensure not puncturing the backer rod during installation as puncture in the backer rod might create bubbling.

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PRIMING

Flexprime PU is a low viscosity single component primer suitable for use with porous and non-porous surfaces. Flexprime PU is recommended to be used for substrates such as concrete and asphalt as well as others.

For applications where KingSeal PP150 is used as a bolt sealer in rubber expansion joints made of synthetic rubber such as chloroprene, neoprene or EPDM rubber, Flexprime PU must be used to ensure optimum adhesion.

Using small brush apply one thin coat at the joint sides and avoid over priming. Apply the mixed KingSeal PP150 sealant while primer is still tacky to achieve optimum adhesion strength.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with a suitable paddle should be used. KingSeal PP150 is supplied in two components, Part A and Part B.

The full quantity of the two components must be mixed thoroughly for 3 - 5 minutes.

PLACING AND FINISHING

The mixed sealant should be applied directly into the primed joints. Sealant must be filled with a minimum recess of 6 mm as insufficient recess can expose the sealant to vehicle tyres which might cause damage over time.

CLEANING

All equipment should be cleaned immediately after finishing using an appropriate solvent. Hardened sealants should be removed mechanically.

PACKAGING

KingSeal PP150 is available in 5.2 kg (4 litre) & 23.4 kg (18 litre) packs.
KingSeal Primer PU is available in 0.46 kg (500 ml) tin.

SEALANT QUANTITY ESTIMATOR

Joint size mm	Meters per litre
10 x 10	10.00
13 x 13	5.91
15 x 15	4.44
20 x 10	5.00
20 x 20	2.50
25 x 12	3.33
25 x 25	1.60
30 x 15	2.22
40 x 20	1.25
50 x 25	0.80

Flexprime PU:
500 ml of Flexprime PU will be sufficient for a joint length of approximately 125 m.

JOINT SIZE SUITABILITY

Joint width*:
- 50 mm (maximum in trafficked areas).
- 6 mm (minimum).

Joint depth:
- 10 mm minimum.
- 25 mm maximum.

Width: Depth ratio**
- 2:1 butt joints.
- 1:1 lap Joints.

* For wider joints please consult KINGKRETE Technical Department.
** Within above min/max restrictions.

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.

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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 manufacturing facilities 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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