KingSeal ® EP100

Two-part hybrid epoxy sealant.

DESCRIPTION

KingSeal EP100 is a two-part epoxy sealant, which when the components are mixed together, cures to form a hard wearing seal which is designed to accommodate a small degree of movement in tension but a considerable movement in compression.

APPLICATIONS

For sealing stress relief joints in tiled floors and swimming pools (can be applied underwater), internal sanitary applications for public/secure areas e.g. prisons.

Note: Not recommended for structural expansion joints or for use in an external situation.

ADVANTAGES

- Tough yet flexible, excellent for use in trafficable areas.
- Long service life expectancy.
- High service temperature range.
- Fast cure minimizing down time.

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.

Joint Backing

Where applicable, appropriate joint filler e.g. closed cell polyethylene foam, should be used to provide the correct joint depth.

Mixing

The base and curing agent ratio controls the adhesion, strength and durability of KingSeal EP100. 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 empty cartridge dispensers using the follower plate supplied. The cartridge is placed over the hole in the center of the plate. Steady downward pressure results in the cartridge being filled. The sealant is then ready for application using caulking gun. 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:	Off white & grey
Typical shore D hardness:	70
Working life:	45 mins. @ 20°C
Application temperature:	10 - 40°C
Service temperature:	- 20 - 90°C Intumesces at temperatures above 140°C
Cure rate:	48 hrs. @ 20°C. At colder temperatures the cure rate will be extended
UV resistance:	Good
Service life:	20 + years (when used in trafficked areas or in special environments such as swimming pools, the life may be reduced)
Movement accommodation: In tension In compression	 5% 50%

CHEMICAL RESISTANCE

Resistant to most alkalis and dilute acids; petrol, diesel or jet fuel and most chemicals likely to be found in swimming pools or similar situations.

PACKAGING

KingSeal EP100 is available in 1.2 liters packs (includes base and curing agent).

SEALANT QUANTITY ESTIMATOR

Joint size mm	Meters per Ltr
6 x 6	27.75
9 x 6	18.50
12 x 9	9.25
20 x 10	5.00

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JOINT SIZE SUITABILITY

Joint Width

- Minimum 6 mm.
- Maximum 20 mm (single application).

Joint Depth

- Minimum 10 mm on porous substrates.
- Minimum 6 mm on non porous substrates.
- Maximum 10 mm.

Width : Depth Ratio
Contact KINGKRETE Technical Department.

ACCESSORIES

- Cleaner TB130: 1 liter tin (Toluene based – not suitable for use with plastics or delicate finishes).
- Cleaner 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 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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