KingSeal ® PU2 SL

Two component self-levelling polyurethane sealant.

DESCRIPTION

KingSeal PU2 SL is an elastomeric two-component polyurethane sealant which cures chemically forming a durable and flexible joint.

APPLICATIONS

- For sealing joints in car parks and traffic decks.
- Ideal for horizontal joints.
- Concrete expansion and construction joints.
- Joints under submerged conditions.
- Sewage treatment plants.

ADVANTAGES

- Excellent adhesion to most substrates.
- Good chemical resistance.
- Wide service temperature range.
- No priming required on most substrates.
- Can be over painted.
- Easy to apply and self-leveling sealant reducing waste.

STANDARDS

KingSeal PU2 SL complies with ASTM C920 Type M, Grade P, Class 25, Use T,M,I and Federal Specifications TT-S- 00227E, Type 1, Class A.

METHOD OF USE

Joint Preparation

The joint surface must be clean, dry and free from any contamination. KINGKRETE solvent can be used to clean and degrease the substrate.

Joint Backing

Where applicable, appropriate joint backing rod such as closed cell polyethylene foam should be used to provide the correct joint depth.

Priming

Most substrates only require priming if the joint will be subjected to water immersion after sealant curing.

Mixing

To insure proper mixing, a mechanically slow speed powered mixer or drill fitted with suitable paddle should be used. KingSeal PU2 SL is supplied in two-parts. The two components must be mixed thoroughly for 3 - 5 minutes. Avoid entrapment of air during mixing.

TECHNICAL PROPERTIES

Colour:	Variety
Shore A hardness:	40 ± 5
Movement accommodation:	± 25%
UV resistance:	Good
Application temperature:	5 to 35°C
Service temperature:	−40 to 75°C
Tack free time:	4 - 8 hr
Final cure:	3 days
Pot life:	2 - 4 hr
Elongation at break:	800%
Tensile strength:	1.2 MPa
Modulus @ 100% extension:	0.5 MPa
Chemical resistance:	Diluted acids and alkalis

APPLICATION

The mixed sealant shall be poured or extruded directly into the joint and allowed to flow and level.

Insure that the sealant is filling the joint by placing the nozzle of the gun into the bottom of the joint. Avoid overlapping of sealant and air entrapment. Tool as necessary.

It is recommended to use masking tape on each side of the joint to maintain clean and uniform joint sides. Remove the masking tape directly after tooling the sealant.

LIMITATIONS

- Do not apply on silicones or in presence of polymerised silicones of hybrid sealants. Avoid contact with alcohols and solvents during curing.
- Allow three days cure before subjecting the sealant to total water immersion.
- Not suitable for swimming pools and high levels of chlorine concentrations.
- White colour tends to yellow slightly when exposed to UV radiation.

CLEANING

Uncured material can be removed using KINGKRETE-solvent. Hardened sealants should be removed mechanically.

PACKAGING

KingSeal PU2 SL can be supplied in different package sizes.

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JOINT SIZE SUITABILITY

Joint depth:

- Non-traffic joints - 6 mm minimum.
- Traffic joints - 13 mm minimum.

It is recommended to use 2:1 width to depth ratio.

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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