

# KingSeal<sup>®</sup> PU1 SL

## One component elastomeric self leveling polyurethane sealant

### DESCRIPTION

KingSeal PU1 SL is a one component self leveling polyurethane based elastomeric sealant which cures under the effect of atmospheric humidity to form a flexible and resistant joint.

### APPLICATIONS

KingSeal PU1 SL can be used for concrete expansion joints. This product with no off-gassing can be applied in tropical conditions.

### ADVANTAGES

- ☐ Single component.
- ☐ Easy to apply self leveling sealant reducing waste.
- ☐ Excellent weatherability.
- ☐ No primer required on most substrates.
- ☐ High movement accommodation factor (25%).
- ☐ Abrasion resistant.
- ☐ Various package sizes available.
- ☐ Water based, does not release harmful vapours.
- ☐ High service temperature range.

### METHOD OF USE

#### Substrate Preparation

- ☐ Concrete must be even, clean, dry, free of dust, oil, grease and any other contaminants that could harm bonding. All traces of poorly adherent paints or coatings should be systematically removed beforehand.
- ☐ It is recommended to clean concrete with a metal brush and to dust it off using air blowers.

### LIMITATIONS

- ☐ Can be applied by a manual or pneumatic gun. This product should be used within 24 hours of opening the sausage; otherwise, the sealant could harden in the sausage.
- ☐ Do not apply at a temperature under 5°C. In cold weather, store the cartridges at 20°C before use.
- ☐ Do not apply on silicones or in presence of polymerised silicones or hybrid sealants (MS or SPUR). Avoid contact with alcohols and solvents during curing.

### TECHNICAL PROPERTIES

|   |  |
|---|--|
| Colour:                                 | Various  |
| Density @ 20°C:                         | 1.18 ± 0.05 g/cm <sup>3</sup>                                  |
| Hardness Shore A:<br>ISO868 - 3 seconds | > 30   |
| Viscosity @ 23°C:                       | Brookfield RVT/spindle 6/5 rpm: 50000 ± 10000 mPa.s            |
| Application temperature:                | 5 up to 35°C   |
| Skin formation time:                    | Ca 4 hr @ 23°C & 50% RH  |
| Cure rate:                              | > 2 mm/day @ 23°C & 50% RH                                     |
| Temperature resistance:                 | -30 - +90°C  |
| Modulus @100%<br>(ISO8339):             | > 0.6 MPa  |
| Resistance to dilute acids and bases:   | Average  |
| UV resistance:                          | Good   |
| Water and salt spray resistance:        | Excellent  |
| Compatibility with                      | Water based : Yes<br>Solvent based: Carry out tests beforehand |

### CLEANING

Clean tools and equipment with KINGKRETE solvent 1, MEK or acetone before the sealant has completely cured. After curing, abrasion is necessary.

### PACKAGING

KingSeal PU1 SL is available in 600 cc sausages and 6 kg metal cans or bulk supply, please contact local KINGKRETE office for more large and bulk packaging.

### 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.

® = Registered trademark of the KingKrete-Group in many countries.

## PU1SL-R3-2601

### 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

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